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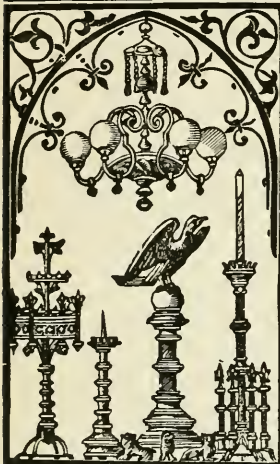
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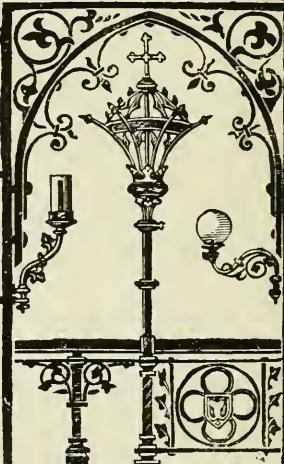
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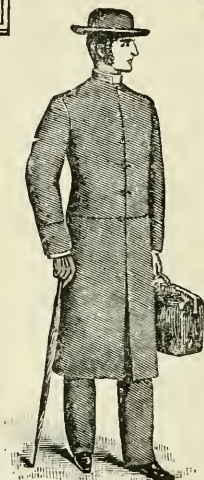
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# CONTENTS.

---

	PAGE
CALENDAR, . . . . .	7
UNIVERSITY OFFICERS, . . . . .	17
I.—THE UNIVERSITY, . . . . .	25
University Buildings, . . . . .	27
Government of the University, . . . . .	29
Chancellor, . . . . .	30
Rector, . . . . .	31
Dean of Faculties, . . . . .	33
Principal, . . . . .	33
University Court, . . . . .	34
Senatus Academicus, . . . . .	37
Faculties, . . . . .	37
Lecturers, . . . . .	38
Boards of Studies, . . . . .	38
University Assistants or Demonstrators, . . . . .	39
Examiners for Degrees, . . . . .	39
General Council, . . . . .	40
Students' Representative Council, . . . . .	42
Students, . . . . .	42
University Chapel, . . . . .	44
Gymnasium, . . . . .	44
Examination for Candidates for the Army, . . . . .	45
II.—TABLE OF UNIVERSITY FEES, . . . . .	46
III.—SEPARATE FACULTIES AND CLASSES, . . . . .	48
1.—FACULTY OF ARTS, . . . . .	55
A. Language and Literature, . . . . .	55
Humanity, . . . . .	55
Greek, . . . . .	58
English Language and Literature, . . . . .	60
Hebrew and Semitic Languages, . . . . .	61
B. Mental Philosophy, . . . . .	61
Logic and Rhetoric, . . . . .	61
Moral Philosophy, . . . . .	62
Political Economy, . . . . .	63
Education, . . . . .	64
Philosophy of Law, . . . . .	65

	PAGE
C. Science, . . . . .	65
Mathematics, . . . . .	65
Natural Philosophy, . . . . .	66
Astronomy, . . . . .	67
Chemistry, . . . . .	68
Zoology, . . . . .	68
Botany, . . . . .	68
Geology, . . . . .	68
D. History and Law, . . . . .	68
History, . . . . .	68
Constitutional Law and History, . . . . .	68
Roman Law, . . . . .	68
Public Law, . . . . .	68
2.—FACULTY OF SCIENCE, . . . . .	68
Mathematics, . . . . .	68
Natural Philosophy, . . . . .	68
Astronomy, . . . . .	69
Chemistry, . . . . .	70
Natural History, . . . . .	70
Botany, . . . . .	70
Anatomy, . . . . .	71
Physiology, . . . . .	71
Civil Engineering and Mechanics, . . . . .	71
Naval Architecture, including Marine Engineering, . . . . .	73
3.—FACULTY OF MEDICINE, . . . . .	74
Practice of Medicine, . . . . .	74
Anatomy, . . . . .	77
Natural History, . . . . .	78
Surgery, . . . . .	79
Midwifery, . . . . .	80
Chemistry, . . . . .	80
Botany, . . . . .	82
Materia Medica, . . . . .	83
Physiology, . . . . .	84
Forensic Medicine, . . . . .	85
Clinical Surgery, . . . . .	86
Clinical Medicine, . . . . .	86
Pathology, . . . . .	87
Physics, . . . . .	88
Embryology, . . . . .	88
Diseases of the Eye, . . . . .	88
Waltonian Medical Lectureship, . . . . .	88
Insanity, . . . . .	88
4.—FACULTY OF LAW, . . . . .	89
Law, . . . . .	93
Conveyancing, . . . . .	94
Forensic Medicine, . . . . .	94
Civil Law, . . . . .	95



	PAGE
Constitutional Law and History, . . . . .	95
General or Comparative Jurisprudence, . . . . .	95
Public International Law, . . . . .	96
International Private Law, . . . . .	96
Mercantile Law, . . . . .	96
5.—FACULTY OF THEOLOGY, . . . . .	97
Divinity, . . . . .	100
Hebrew and Semitic Languages, . . . . .	100
Ecclesiastical History, . . . . .	102
Divinity and Biblical Criticism, . . . . .	102
IV.—DEMONSTRATORSHIPS, &c., . . . . .	103
Arnott and Thomson Demonstratorship in Experimental Physics, . . . . .	103
Muirhead Demonstratorship of Physiology, . . . . .	104
William Baxter Demonstratorship in Geology, . . . . .	104
Gifford Lectureship on Natural Theology, . . . . .	106
M'Callum Celtic Lectureship, . . . . .	107
V.—WOMEN'S DEPARTMENT, . . . . .	108
VI.—LIBRARIES, MUSEUM, BOTANIC GARDEN, . . . . .	113
University Library, . . . . .	113
Catalogues, . . . . .	117
Reading Room, . . . . .	118
Donations, . . . . .	119
Divinity Hall Library, . . . . .	124
Hunterian Museum, . . . . .	124
Botanic Garden, . . . . .	126
VII.—GRADUATION IN THE SEVERAL FACULTIES, . . . . .	127
Examiners, . . . . .	127
Regulations for Granting Degrees, . . . . .	129
1.—GRADUATION IN ARTS, . . . . .	129
Preliminary Examination in Arts, Science, and Medicine, . . . . .	129
Degree of Master of Arts, . . . . .	134
Subjects of Examination for M.A., . . . . .	142
Table of Examinations for M.A., . . . . .	148
2.—GRADUATION IN SCIENCE, . . . . .	149
Degrees in Pure Science, . . . . .	149
Degrees in Science in Engineering, . . . . .	152
Table of Examinations for B.Sc., . . . . .	157
Certificate of Proficiency in Engineering Science, . . . . .	156
3.—GRADUATION IN MEDICINE AND SURGERY, . . . . .	158
Table of Examinations for Degrees in Medicine, . . . . .	175
4.—GRADUATION IN LAW, . . . . .	179
Table of Examinations for Degrees in Law, . . . . .	186

	PAGE
5.—GRADUATION IN DIVINITY, . . . . .	187
Bachelor of Divinity, . . . . .	187
Table of Examinations for B.D., . . . . .	189
6.—HONORARY DEGREES, . . . . .	190
ACADEMIC DRESS, . . . . .	191
VIII.—BURSARIES, SCHOLARSHIPS, &c., PRIZES, . . . . .	193
1.—BURSARIES—	
A. Bursaries arranged according to Faculties, . . . . .	193
B. Bursaries alphabetically arranged, . . . . .	196
2.—EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS, . . . . .	246
3.—PRIZES, . . . . .	268
4.—LIST OF BURSARIES, &c., OPEN TO COMPETITION DURING SESSION 1894-95, . . . . .	278
5.—UNIVERSITY PRIZE ESSAYS FOR SESSION 1894-95, . . . . .	287
IX.—HONOUR LIST, . . . . .	289
X.—DEGREE AND PRIZE LIST, SESSION 1893-94, . . . . .	300
XI.—EXAMINATION QUESTIONS, . . . . .	349
1.—FOR PRELIMINARY EXAMINATIONS IN ARTS AND SCIENCE AND FOR OPEN BURSARIES, . . . . .	349
2.—FOR DEGREE OF M.A., . . . . .	368
3.—FOR DEGREE OF B.Sc., . . . . .	396
4.—FOR DEGREES OF M.B. AND C.M.:—	
(1.) Preliminary Examination, . . . . .	409
(2.) Professional Examinations, . . . . .	414
5.—FOR DEGREES OF LL.B. AND B.L., . . . . .	421
6.—FOR DEGREE OF B.D., . . . . .	430
7.—FOR HISTORICAL PRIZES, . . . . .	436
XII.—VACATION EXERCISES, &c., 1894-95, . . . . .	438
XIII.—ABSTRACT OF THE PROCEEDINGS OF THE UNIVERSITY COURT, 1893-94, . . . . .	441
XIV.—FINANCIAL STATEMENT FOR THE YEAR 1892-93, . . . . .	454
APPENDIX I.—List of Members of the General Council, . . . . .	462
,, II.—Extra-Academical Teaching, . . . . .	501
,, III.—Glasgow University Extension Board, . . . . .	506
,, IV.—University Societies, . . . . .	507
GENERAL INDEX, . . . . .	517

## AUGUST 1894.

1 W  
 2 Th  
 3 F  
 4 S  
 5 S  
 6 M  
 7 Tu  
 8 W  
 9 Th  
 10 F  
 11 S  
 12 S  
 13 M  
 14 Tu  
 15 W  
 16 Th  
 17 F  
 18 S  
 19 S  
 20 M  
 21 Tu  
 22 W  
 23 Th  
 24 F  
 25 S  
 26 S  
 27 M  
 28 Tu  
 29 W  
 30 Th  
 31 F

## SEPTEMBER 1894.

1 S  
 2 S  
 3 M  
 4 Tu  
 5 W  
 6 Th  
 7 F  
 8 S  
 9 S  
 10 M  
 11 Tu  
 12 W  
 13 Th  
 14 F  
 15 S  
 16 S  
 17 M  
 18 Tu  
 19 W  
 20 Th  
 21 F  
 22 S  
 23 S  
 24 M  
 25 Tu  
 26 W  
 27 Th  
 28 F  
 29 S  
 30 S

Names of Candidates for Bursaries in the gift of the Merchants' House, for Hutchesons' Educational Trust Bursaries, for Glasgow City Educational Endowments Bursaries, for James Laing Bursaries, for Marshall Bursaries, and for Hannay Bursary to be given in as directed at p. 283. Names of Candidates for Ferguson Scholarships to be given in before this day.

Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, for Preliminary Examination in French and German for B.L., and Names of Competitors for Bursaries, to be given in to Assistant-Clerk (Matriculation Office).

Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to Assistant-Clerk (Matriculation Office).

Names of Candidates for Degrees in Law and Arts, and for Scholarships, etc., to be given in to Assistant-Clerk (Matriculation Office).

Preliminary Examinations in Arts, Science, Medicine, and Law begin. See p. 133 and p. 186. Competition for Bursaries begins.

## OCTOBER 1894.

1	M	
2	Tu	Degree Examinations—French, 1st Paper.
3	W	Degree Examinations—German, 1st Paper.
4	Th	Degree Examinations—French, 2nd Paper.
5	F	Degree Examinations—German, 2nd Paper.
6	S	Degree Examinations—Astronomy, Geology.
7	S	
8	M	Degree Examinations—Zoology, Botany, Chemistry.
9	Tu	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> { Degree Examinations—Physics, Physiology, Anatomy, Engineering Drawing, Naval Architecture, Ship Design, Scots Law, Philosophy of Law, Public Law. Meeting of Preliminary Examiners. </div> <div> Competition for the Rainy and Lorimer Bursaries. </div> </div>
10	W	{ Degree Examinations—Regional Anatomy, Materia Medica, Pathology, Civil Engineering, Civil Law, Constitutional Law, Roman Law.
11	Th	{ Degree Examinations—Conveyancing, Medical Jurisprudence, Civil Engineering. Meeting of Classical Committee of Joint Board.
12	F	{ Meeting of Joint Board. Degree Examinations in Mathematics, etc., begin. See pp. 148, 157, 186.
13	S	{ Meeting of Joint Board. Examination for Arnott Prizes at 2 P.M. Last day for Professors sending in Names of Assistants to the Secretary of the University Court.
14	S	
15	M	Matriculation begins.

## OCTOBER 1894.

16	Tu	
17	W	
18	Th	{ Results of Bursary Competition declared. Meeting of University Court. Appointment of University Assistants. Appointment of Governors at Victoria Infirmary and Managers at Western Infirmary.
19	F	
20	S	Theses for M.D. given in.
21	S	
22	M	Classes in Faculties of Arts, Science, Medicine, and Law meet.
23	Tu	
24	W	
25	Th	
26	F	Names of Candidates for Degree of B.D. and for Bursaries, etc., in Divinity to be given in to Assistant-Clerk (Matriculation Office).
27	S	
28	S	
29	M	
30	Tu	Classes in Faculty of Divinity meet. Dr. Stewart's address.
31	W	{ (Last Wednesday.) Meeting of General Council. Last day for receiving Tradesmen's and other Accounts for preceding half-year. Last day for receiving Professors' Accounts for class-expenses for trans- mission to University Court.

## NOVEMBER 1894.

1	Th	{ Meeting of Senate. Election of Library and other Committees. { Examinations for B.D., and for Bursaries in Divinity, 1st day. See p. 189.
2	F	Do. do., 2nd day.
3	S	
4	S	
5	M	
6	Tu	
7	W	
8	Th	{ Meeting of Senate. Graduation. Representatives at Charitable and { other Boards elected. Meeting of University Court. Accounts for half-year ending 31st October.
9	F	
10	S	
11	S	
12	M	
13	Tu	
14	W	{ Last day for giving in University Prize Essays. { Matriculation ends.
15	Th	
16	F	
17	S	
18	S	
19	M	
20	Tu	
21	W	



## NOVEMBER 1894.

22	Th
23	F
24	S
25	S
26	M
27	Tu
28	W
29	Th
30	F

## DECEMBER 1894.

1	S	
2	S	
3	M	
4	Tu	
5	W	
6	Th	Meeting of Senate. Election of Armagh Bursar. Vacancies in Bur-
7	F	(saries ascertained.
8	S	
9	S	
10	M	Payment of Tradesmen's Accounts.
11	Tu	
12	W	
13	Th	Meeting of the University Court.
14	F	
15	S	
16	S	
17	M	
18	Tu	
19	W	
20	Th	
21	F	
22	S	
23	S	
24	M	Christmas Holidays commence.
25	Tu	
26	W	
27	Th	
28	F	
29	S	
30	S	
31	M	

## JANUARY 1895.

1	Tu	
2	W	
3	Th	
4	F	
5	S	
6	S	
7	M	First day on which the Classes meet after the Christmas Holidays.
8	Tu	(Second Thursday.) Meeting of Senate. Intimation from the several
9	W	Faculties of the Election of Deans. Vacant Bursaries filled up.
10	Th	Appointment of Committees.
11	F	Meeting of University Court. Appointment of Preliminary Examiners
12	S	and Members of Joint Board.
13	S	
14	M	
15	Tu	
16	W	
17	Th	
18	F	
19	S	
20	S	
21	M	
22	Tu	
23	W	
24	Th	
25	F	
26	S	
27	S	
28	M	Holiday (Monday after last Friday of January).
29	Tu	*Holiday (for Candlemas).
30	W	
31	Th	

## FEBRUARY 1895.

1	F	
2	S	
3	S	
4	M	
5	Tu	
6	W	
7	Th	Meeting of Senate.
8	F	
9	S	
10	S	
11	M	
12	Tu	
13	W	
14	Th	(Second Thursday.) Meeting of University Court.
15	F	
16	S	
17	S	
18	M	
19	Tu	
20	W	
21	Th	
22	F	
23	S	
24	S	
25	M	Holiday (Monday after last Friday of February).
26	Tu	
27	W	
28	Th	

\*The Candlemas and Monthly Holidays are not observed in the Medical Faculty.

## MARCH 1895:

1	F	{ Names of Candidates for Examinations for Degrees in Arts and Law to be given in to Assistant Clerk (Matriculation Office).		
2	S			
3	S			
4	M			
5	Tu	{ Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, given in to Assistant-Clerk (Matriculation Office).		
6	W			
7	Th	Meeting of Senate. Reports of Committees on Honorary Degrees.		
8	F	Reports on Prize Essays.		
9	S			
10	S	{ Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, and for French and German for B.L., to be given in to Assistant-Clerk (Matriculation Office).		
11	M			
12	Tu			
13	W			
14	Th	Meeting of University Court.		
15	F			
16	S			
17	S			
18	M			
19	Tu			
20	W	Theses for M.D. given in.		
21	Th	{ (Penult Thursday.) Meeting of Senate. Election of Commissioner to General Assembly. Snell Examiners appointed. Appointment to International Exhibition Scholarship.		
22	F	{ Winter Classes in Faculty of Medicine, &c., close.		
23	S	{ Names of Candidates for Degree of B.D. given in to Assistant-Clerk (Matriculation Office).		
24	S	Degree Examinations—Astronomy, Geology.		
25	M	Do.	do.	Zoology, Botany, Chemistry, Scots Law, Public Law.
26	Tu	Do.	do.	Drawing, Physics, Physiology, Anatomy, Naval Architecture, Ship Design, Roman Law, Civil Law, Constitutional Law.
27	W	Do.	do.	Regional Anatomy, Materia Medica, Pathology, Civil Engineering, Hebrew, Conveyancing, Medical Jurisprudence.
28	Th	Do.	do.	Civil Engineering, Political Economy, Divinity, Textual Criticism, Philosophy of Law.
29	F	Do.	do.	Church History, Hermeneutics.
30	S	{ Preliminary Examinations in Arts, Science, and Medicine begin. See p. 133.		
31	S	{ Degree Examinations in remaining Arts Subjects and Snell Exhibition begin. (See pp. 148, 157, 186.)		
		{ Last day for receiving Tradesmen's, Forty-five shilling, and other Accounts for preceding half-year.		
		{ Last day for receiving Professors' Accounts of Class Expenses for transmission to University Court.		

## APRIL 1895.

1	M	
2	Tu	
3	W	Meeting of General Council.
4	Th	Meeting of Senate.
5	F	
6	S	Last day for returning Books to Library.
7	S	
8	M	
9	Tu	Meeting of Preliminary Examiners.
10	W	
11	Th	
12	F	Meeting of Joint Board.
13	S	Meeting of Joint Board.
14	S	
15	M	
16	Tu	{ Graduation in all the Faculties. Honorary Graduation. Distribution of University Prizes. Library reopened.
17	W	Meeting of Senate.
18	Th	Meeting of University Court.
19	F	
20	S	

## APRIL 1895.

21	S
22	M
23	Tu
24	W
25	Th
26	F
27	S
28	S
29	M
30	Tu

Summer Medical Classes open.

## MAY 1895.

1	W
2	Th
3	F
4	S
5	S
6	M
7	Tu
8	W
9	Th
10	F
11	S
12	S
13	M
14	Tu
15	W
16	Th
17	F
18	S
19	S
20	M
21	Tu
22	W
23	Th
24	F
25	S
26	S
27	M
28	Tu
29	W
30	Th
31	F

Meeting of University Court.

Payment of Tradesmen's and other Accounts. Meeting of Faculty of Medicine.

Names of Candidates for Final Professional Examination in Medicine to be given in to Assistant-Clerk (Matriculation Office).

## JUNE 1895.

1	S	
2	S	
3	M	
4	Tu	
5	W	
6	Th	
7	F	
8	S	
9	S	
10	M	Clinical Examinations begin.
11	Tu	
12	W	
13	Th	Meeting of University Court.
14	F	
15	S	
16	S	
17	M	
18	Tu	
19	W	
20	Th	Theses for M.D. given in.
21	F	
22	S	
23	S	
24	M	
25	Tu	
26	W	
27	Th	
28	F	
29	S	
30	S	

## JULY 1895.

1	M	
2	Tu	
3	W	
4	Th	
5	F	
6	S	
7	S	
8	M	Final Professional Written Examinations for Degrees in Medicine on this and two following days. (See p. 175.)
9	Tu	
10	W	
11	Th	Meeting of University Court. Appointment of Lecturers.
12	F	
13	S	
14	S	
15	M	
16	Tu	
17	W	
18	Th	
19	F	
20	S	
21	S	
22	M	
23	Tu	
24	W	
25	Th	Meeting of Senate. Graduation in Medicine.
26	F	
27	S	
28	S	
29	M	
30	Tu	
31	W	



## UNIVERSITY OFFICERS.

	Elected.	Electors.
<i>Chancellor</i> —THE RIGHT HON. THE EARL OF STAIR, K.T., LL.D., - - - -	1884	General Council.
<i>Vice-Chancellor</i> —JOHN CAIRD, D.D., LL.D.,	1873	Chancellor.
<i>Rector</i> —THE RIGHT HON. SIR JOHN ELDON } GORST, Q.C., M.P.,	1893 {	Matriculated Students.
<i>Principal</i> —JOHN CAIRD, D.D., LL.D., -	1873	Crown.
<i>Dean of Faculties</i> —SHERIFF BERRY, LL.D., -	1894	Senate.
<i>Parliamentary Representative</i> —JAMES A. CAMPBELL, LL.D., - - - -	1880	General Council.

## University Court.

THE RECTOR, *ex officio*.THE PRINCIPAL, *ex officio*.THE LORD PROVOST OF GLASGOW, *ex officio*.

	Elected.	Electors.
SIR JAMES KING, BART., LL.D., -	1887	Chancellor.
MATTHEW P. FRASER, LL.B., -	1893	Rector.
JAMES COLQUHOUN, LL.D., -	1890	{ Lord Provost, Magistrates, and Town Council of Glasgow.
REV. J. W. KING, D.D., -	1891	
D. C. M'VAIL, M.B., - - -	1891	{ General Council.
HECTOR C. CAMERON, M.D., -	1893	
SIR JOHN N. CUTHBERTSON, -	1893	
PROFESSOR RAMSAY, LL.D., -	1890	{ Senate.
PROFESSOR GAIRDNER, M.D., (1891)	1893	
SHERIFF BERRY, LL.D., - -	1892	
PROFESSOR STEWART, D.D., -	1893	

## Senatus Academicus.\*

PRESIDENT, - - - THE PRINCIPAL, - - - 1873

## PROFESSORS.

	CHAIRS.	Appointed
William Purdie Dickson, D.D., LL.D., -	<i>Divinity</i> , -	1873
Lord Kelvin, LL.D., D.C.L., P.R.S., -	<i>Natural Philosophy</i> ,	1846
William T. Gairdner, M.D., LL.D., F.R.S.,	<i>Practice of Medicine</i> ,	1862
George G. Ramsay, LL.D., - - -	<i>Humanity</i> , - -	1863
John Veitch, LL.D., - - -	<i>Logic and Rhetoric</i> , -	1864
John Young, M.D., - - -	<i>Natural History</i> , -	1866
Pierce A. Simpson, M.A., M.D., -	<i>Forensic Medicine</i> , -	1872
William Stewart, D.D., - - -	<i>Biblical Criticism</i> , -	1873
George Buchanan, M.A., M.D., LL.D.,	<i>Clinical Surgery</i> , -	1874
T. M'Call Anderson, M.D., - - -	<i>Clinical Medicine</i> , -	1874
John Ferguson, M.A., LL.D., F.S.A., -	<i>Chemistry</i> , - -	1874
John Gray M'Kendrick, M.D., LL.D., } F.R.S., - - - - - }	<i>Physiology</i> , - -	1876
James Robertson, D.D., - - -	- { <i>Hebrew and Semitic</i> } <i>Languages</i> , - }	1877
John Cleland, M.D., LL.D., D.Sc., } F.R.S., - - - - - }	<i>Anatomy</i> , - -	1877
William Jack, LL.D., - - -	<i>Mathematics</i> , - -	1879
Matthew Charteris, M.D., - - -	<i>Materia Medica</i> , -	1880
Frederick O. Bower, D.Sc., F.R.S., -	<i>Botany</i> , - - -	1885
Robert Herbert Story, D.D., - - -	<i>Church History</i> , -	1886
Alexander Moody Stuart, LL.D., -	<i>Law</i> , - - -	1887

\* "The precedence of the Masters in point of ceremony shall, in all time coming, be, that the Professor of Divinity take place first after the Principal, and that all the other Masters and Professors of whatever kind take place of other according to the seniority and time of their admissions into their respective offices."—*Statute of Royal Visitation*, 1727.

PROFESSORS— <i>Continued.</i>				CHAIRS.	Appointed
Andrew Cecil Bradley, M.A.,	-	-	-	- { <i>English Language and Literature,</i>	1889
George G. A. Murray, B.A.,	-	-	-	- <i>Greek,</i> - - -	1889
Archibald Barr, D.Sc.,	-	-	-	- { <i>Civil Engineering and Mechanics,</i>	1889
James Moir,	-	-	-	- <i>Conveyancing,</i> - - -	1889
John Harvard Biles,	-	-	-	- { <i>Naval Architecture, including Marine Engineering,</i>	1891
William Macewen, M.D., LL.D.,	-	-	-	- <i>Surgery,</i> - - -	1892
Ludwig Becker, Ph.D.,	-	-	-	- <i>Astronomy,</i> - - -	1893
Murdoch Cameron, M.D.,	-	-	-	- <i>Midwifery,</i> - - -	1894
Joseph Coats, M.D.,	-	-	-	- <i>Pathology,</i> - - -	1894
Henry Jones, M.A.,	-	-	-	- <i>Moral Philosophy,</i> -	1894
Richard Lodge, M.A.,	-	-	-	- <i>History,</i> - - -	1894

### Lecturers.

John Young, M.D.,	-	-	-	-	<i>Honyman Gillespie Lecturer.</i>
Thomas Reid, M.D.,	-	-	-	-	<i>Waltonian Lecturer.</i>
David Yellowlees, M.D., LL.D.,	-	-	-	-	<i>Insanity.</i>
J. Yule Mackay, M.D.,	-	-	-	-	<i>Embryology.</i>
Magnus Maclean, M.A.,	-	-	-	-	<i>Physics.</i>
Wm. Galbraith Miller, M.A., LL.B.,	-	-	-	-	{ <i>Public International Law; International Private Law; and General Jurisprudence.</i>
_____					{ <i>Constitutional Law and History.</i>
_____					<i>Civil Law.</i>
James Mackenzie,	-	-	-	-	<i>Mercantile Law.</i>
William Smart, LL.D.,	-	-	-	-	<i>Political Economy.</i>

William Wallace, M.A.,	-	-	-	{ <i>Natural Theology</i> (Gifford Foundation).
* Alexander Tille, Ph.D.,	-	-	-	{ <i>German Language and Literature.</i>
* Jules A. Kunz,	-	-	-	{ <i>French Language and Literature.</i>
* James Blyth, M.A.,	-	-	-	- <i>Natural Philosophy.</i>
* Thomas Gray, B.Sc.,	-	-	-	- <i>Chemistry.</i>
* Thomas H. Bryce, M.A., M.B.,	-	-	-	- <i>Anatomy.</i>
* Charles O. Hawthorne, M.B.,	-	-	-	- <i>Materia Medica.</i>
* J. Lindsay Steven, M.D.,	-	-	-	- <i>Pathology.</i>
* William J. Fleming, M.D.,	-	-	-	- <i>Surgery.</i>
* J. Wallace Anderson, M.D.,	-	-	-	- <i>Practice of Medicine.</i>
John Brown, M.A.,	-	-	-	- <i>Humanity.</i>
R. M. Burrows, M.A.,	-	-	-	- <i>Greek.</i>
G. A. Gibson, M.A.,	-	-	-	- <i>Mathematics.</i>

\* Lecturers at Queen Margaret College.

### University Assistants or Demonstrators.

<i>Humanity</i> ,	-	-	-	-	{ John Brown, M.A. Daniel Rankin, B.A.
<i>Greek</i> ,	-	-	-	-	{ George Macdonald, M.A. Ronald M. Burrows, M.A.
<i>Natural Philosophy.</i>	-	-	-	-	Magnus Maclean, M.A., F.R.S.E.
Arnott and Thomson Demon- strator in <i>Experimental Physics</i> ,	-	-	-	-	{ James Thomson Bottomley, M.A., D.Sc., F.R.S.
<i>Mathematics</i> ,-	-	-	-	-	{ George A. Gibson, M.A. Daniel Lamont, M.A.
"Young" Assistant in <i>Civil Engineering and Mechanics</i> ,	-	-	-	-	{ Alexander B. Dobbie, B.Sc.

<i>Naval Architecture,</i>	-	-	William Stevenson.
<i>Practice of Medicine,</i>	-	-	John H. Carslaw, M.A., M.D.
<i>Anatomy,</i>	-	-	- { John Yule Mackay, M.D.
			- { Alfred A. Young, M.A., M.B., C.M.
			- { Alexander Macphail.
Baxter Demonstrator in <i>Geology</i> , Robert Buchanan, M.A., B.Sc.			
<i>Surgery,</i>	-	-	George Ritchie Thomson, M.B., C.M.
<i>Midwifery,</i>	-	-	-----
<i>Chemistry,</i>	-	-	- { James Stanley Muir, B.Sc.
			- { William R. Lang, B.Sc.
<i>Botany,</i>	-	-	- { John C. Willis.
			- { William H. Lang.
<i>Materia Medica,</i>	-	-	William MacLennan, M.B., C.M.
Muirhead Demonstrator of <i>Physiology,</i>	-	-	- { William Snodgrass, M.A., M.B., C.M.
			- {
<i>Forensic Medicine,</i>	-	-	- { Donald Munro, M.D.
			- { T. Kennedy Dalziel, M.B.
<hr/>			
<i>Clinical Surgery,</i>	-	-	J. C. Renton, M.D.
<i>Clinical Medicine</i> (Dr. Gaird- ner),	-	-	- { Charles O. Hawthorne, M.B., C.M.
			- { John H. Carslaw, M.A., M.D.
<i>Clinical Medicine</i> (Dr. Ander- son),	-	-	- { William G. Dun, M.D.
			- { James Hinshelwood, M.A., M.D.

### Examiners for Degrees.

*In Divinity.*—The Professors in the Faculty of Theology.

*In Law.*—The Professors and Lecturers in the Faculty of Law,  
assisted by

William Galbraith Miller, LL.B., Advocate.

Robert T. Younger, LL.B., Advocate.

W. Craig Robertson, LL.B.

*In Medicine.*—The Professors and Lecturers in the Faculty of Medicine, Lecturers as specified in Section XXIV. of Ordinance No. 14, and the following additional Examiners :—

Alex. M. Buchanan, M.A., M.D.	John H. Fullarton, D.Sc.
Ralph Stockman, M.D.	D. Noel Paton, M.D.
Ebenezer Duncan, M.D.	R. F. C. Leith, M.B.
A. E. Maylard, M.B.	John Barlow, M.D.
C. M. Aikman, M.A., D.Sc.	John Duff, M.D.
J. R. Green, M.A., F.L.S.	Andrew Gray, M.A.
Samuel Sloan, M.D.	J. Lindsay Steven, M.D.
William J. Naismith, M.D.	

*In Arts.*—The Professors of Humanity, Greek, Logic, Moral Philosophy, Natural Philosophy, Mathematics, and English Literature, assisted by

John H. Muirhead, M.A., Examiner in Mental Philosophy,	1891*
Andrew Gray, M.A., „ Mathematics,	- 1892
Wallace M. Lindsay, M.A., „ Classics,	- - 1893

*In Science.*—Professor Lord Kelvin, D.C.L., Professor Young, M.D., Professor Ferguson, LL.D., Professor M'Kendrick, M.D., Professor Cleland, M.D., Professor Jack, LL.D., Professor Bower, D.Sc., Professor Barr, D.Sc., Professor Biles, Professor Becker, Ph.D.

*Preliminary Examiners in Arts, Science, and Medicine.*—†Professor Ramsay, LL.D., Professor Jack, LL.D., †Professor Bradley, M.A., Professor Murray, B.A., Professor H. Strong, J. W. Marshall, M.A., †R. H. Pinkerton, M.A., G. R. Merry, LL.D., †A. M. Bell, H. S. Beresford Webb.

\* Mr. Muirhead's term of office expires in the end of December, 1894.

† Members of the Joint Board.



## Other Officials.

<i>Keeper of Hunterian Library and Museum,</i> - - -	- } Professor Young, M.D.
<i>Under-Keeper,</i> - - -	- John Young, LL.D., F.G.S.
<i>Curator of Library,</i> - -	- Professor Dickson, D.D., LL.D.
<i>Librarian,</i> - - -	- James Lymburn.
<i>Sub-Librarian,</i> - - -	- James L. Galbraith.
<i>Secretary to the University Court,</i> - - -	- { Alan E. Clapperton, B.L., 91 West Regent Street.
<i>Clerk of Senate,</i> - - -	- { Professor Stewart, D.D., 18 Annfield Terrace, Partickhill.
<i>Assistants to the Clerk of Senate,</i> - - -	- { W. Innes Addison, Matriculation Office. James Coutts, M.A., Registration Office. Miss Galloway, Secretary at Queen Margaret College.
<i>Registrar of the General Council,</i> - - -	- } James Coutts, M.A.
<i>Clerk of the General Council,</i> -	- { Archibald Craig, LL.B., 156 St. Vincent Street.
<i>Factors,</i> - - -	- Hill & Hoggan, 194 Ingram Street.
<i>Law-Agents,</i> - - -	- { Mitchells, Johnston, & Co., 160 West George Street.
<i>Auditors,</i> - - -	- { Brown, Fleming, & Murray, 163 West George Street.
<i>Publishers and Booksellers to the University,</i> - -	- { James MacLehose & Sons, 61 St. Vincent Street.
<i>Printer to the University,</i> -	- { Robert MacLehose, 153 West Nile Street.
<i>Robe Makers to the University,</i> - - -	- { James Thomson & Son, 84 St. Vincent Street.

## HEAD SERVANTS.

*Bedellus and Janitor*, - - - Lauchlan M'Pherson.

*Master of Works*, - - - David Stewart.

## Students' Representative Council.

*President*—John H. Pagan, B.D.

*Vice-Presidents*—James W. Cleland ; Alfred Charlton

*Secretary*—William M. R. Pringle, 10 Church Street, Partick.

*Assistant Secretaries*—G. G. Duncan, M.A. (Divinity) ; James Ferguson, M.A. (Arts) ; J. Liddell, M.A. (Law) ; W. H. de Wytt (Medicine) ; and William Alexander (Science).

*Treasurer*—Francis R. Hill, 1 Beaully Terrace.

*Executive Committee.* *Divinity*—D. Graham ; *Law*—J. G. Spens, M.A. ; *Medicine*—Joshua Ferguson, M.A., John Brownlee, M.A. ; *Arts*—W. Parker Hanks, C. H. Coats, James F. Brown ; *Science*—Samuel Milroy.

## I.—THE UNIVERSITY.

The University of Glasgow is a corporate body, which has always included a Chancellor, Rector, Dean of Faculties, Principal, Professors, and Students. It was originally founded, like most other ancient establishments of the same nature, by the authority of the See of Rome. Pope Nicholas V., by a bull, dated the seventh of January, 1450-1, erects and establishes in Glasgow a "*Studium Generale . . . tam in theologia ac jure canonico et civili, quam in artibus, et quavis alia licita facultate.*" He then declares that this University shall have the same power of creating Masters and Doctors as any other "*studium generale*" in Christendom, and appoints the Bishop of Glasgow and his successors, Chancellors and Rectors by his authority. In the same year a body of statutes was prepared, and the University established by the exertions of the Bishop and his Chapter. It consisted, at this time, of the Chancellor and Rector, of various Masters and Doctors in the Faculties of Theology, Canon Law, and the Arts; and, lastly, of the incorporated students in these Faculties, who might be promoted to the same degrees in each, after following out the course of study prescribed in the statutes.

The University, at this time, had received no endowments, and was possessed of no property, except a University purse, into which were put some small perquisites on conferring degrees, and the patronage of two or three small chaplainries. It continued, however, to discharge its important functions with great zeal and activity, and attracted a greater number of members than could well have been expected in that rude period of society. The University Records contain little information as to lectures delivered in the Higher Faculties, or the number of the students who attended them. But we learn that within three or four years after the establishment of the University, so many young men were matriculated in the Faculty of Arts, that it was thought expedient to provide a house in which they

might reside, and to secure a regular set of teachers for their instruction.

The house provided for the accommodation of the students in Arts was known by the name of *Pædagogium*, or the College of Arts. It is said to have been situated in the Rottenrow ; but in the year 1460, James, Lord Hamilton, bequeathed to Mr. Duncan Bunch, principal Regent of the College of Arts, and his successors, Regents, for the use of the said College, a tenement in the High Street, with four acres of land adjoining. In buildings situated on this ground the classes of the University continued to meet for upwards of four hundred years.

The Reformation produced at first great disorder in the University, its members being clergymen of the Catholic persuasion, and its chief support being derived from the Church. In 1577, James VI. prescribed very particular rules with regard to the College and the form of its government, and made a considerable addition to its funds. The charter by which the king made these regulations, and gave that property, is known by the name of *Nova Erectio*.

By this charter, provision was made for the support of a Principal, who was to teach Theology and the Holy Scriptures, and was also Professor of Hebrew and Syriac, and three Regents, of whom one was to teach Greek and Rhetoric, another Dialectics, Morals, and Politics, with the Elements of Arithmetic and Geometry, and the third, who was also Sub-Principal, was to teach all the branches of Physiology and Geography, Chronology and Astrology. The Regents were to keep each by his own Profession, so that the student had a new Regent every year.<sup>1</sup>

From this small beginning, the University continued to prosper till the era of the Restoration, having at that time, besides the Principal, two Professors of Theology, one of Medicine, four Regents or Professors of Philosophy, and one of Humanity, a Librarian, with a tolerable Library, an increased number of Bursars and of other students of all ranks. At the Restoration, however, being deprived of a great part of its revenues in consequence of the re-establishment of Episcopacy, three of the Professorships fell into abeyance, and the College was again reduced to a Principal,

<sup>1</sup> This system was altered in 1642, in accordance with the practice of the other Universities ; but returned to after the Revolution. The four classes necessary to Graduation in Arts were called—the first, *Bajan* ; the second, *Scmī* ; the third, *Baccalour* ; the fourth, *Magistrand*.

a Professor of Theology, and four Regents. This state of matters continued till the Revolution, when the University again began to prosper after a long period of depression.<sup>1</sup> In the first twenty years of last century, six Professorships were either originally founded or revived, viz.:—those of Humanity (1706), Oriental Languages (1709), Civil Law (1712), Medicine (1712), Church History (1716), and Anatomy (1718); and to these a Professorship of Astronomy was added in 1760. The remaining seventeen Professorships were founded during the present century, viz.:—Natural History, (1807), Surgery (1815), Midwifery (1815), Chemistry (1817), Botany (1818), Materia Medica (1831), Institutes of Medicine (1839), Forensic Medicine (1839), Civil Engineering (1840), Conveyancing (1861), English Language and Literature (1861), Divinity and Biblical Criticism (1861), Clinical Surgery (1874), Clinical Medicine (1874), Naval Architecture (1883), History (1893), Pathology (1893).

#### UNIVERSITY BUILDINGS.

The changes in the City of Glasgow having so entirely altered the character of the district in which the University Buildings were planted four hundred years ago, as to render the locality altogether unsuitable for an Academic Institution; and the buildings themselves having become, by their limited extent and defective construction, inadequate for the modern requirements of a great educational establishment; measures were adopted for the removal of the University to more extended and commodious buildings, and for this purpose a large extent of ground was secured in the lands of Gilmorehill, in the western part of the City.

In 1846, a Bill for the sale of the College grounds and buildings to the Monklands Junction Railway Company, and the transference of the University to a new site on Woodlands, was passed by both Houses of Parliament, and received the Royal assent. But that measure failed by the inability of the Railway Company to implement their engagements; and the Senate of the University found no favourable opportunity for the renewal of the scheme, till the year 1863, when a proposal for the purchase of the College lands and buildings was made by the City of Glasgow Union Railway Company, and a sale

<sup>1</sup> See Dr. Thomas Reid's Account of the University of Glasgow.

was accordingly effected to that Company, under their Act of Parliament, in 1864, at the price of £100,000.

The funds at the disposal of the University to carry out the scheme of removal consisted of—(1.) The produce of the sale of the old College and grounds, £100,000,—(2.) A sum of £17,500, consisting of the principal sum of £10,000, obtained by the University as compensation from the Monklands Junction Company, for non-fulfilment of their agreement, with interest since the time of payment, and—(3.) A sum of £21,400, promised by her Majesty's Government in aid of the scheme of removal, conditionally on a further sum of £24,000 being raised by public subscription, for the erection of a sick hospital in connection with the new University Buildings.

With these funds at their disposal, buildings might have been erected sufficient for the transaction of the ordinary business of instruction in the same manner as heretofore, and for the accommodation of the Library and Museum, but they must have been of the plainest design, and on a scale quite inadequate to provide for the future extension of the University.

In these circumstances, the Senate resolved to make an earnest appeal for aid to the Government and to the public. This appeal was responded to in the most generous and gratifying manner. In a short time a sum of nearly £100,000 was subscribed, chiefly in the City of Glasgow; and the Government, appreciating the importance of the work, and the public interest it had excited, announced their intention to ask Parliament for the sum of £120,000, in six annual instalments, on condition of a like amount being raised by subscription and expended on the buildings. This sum was paid out of the National Treasury, and there has been received from the public subscription for the University Buildings and the Western Infirmary and from legacies the large amount of £256,429, including £45,000 from the Marquis of Bute for the erection of the Bute Hall, £5,000 from Dr. J. M'Intyre for the University Union Buildings, £4,274 from the late Sir William Pearce, Bart., for the removal of the old College front and the re-erection of the materials at the north-east gateway, £5,000 bequeathed by Mr. Andrew Cunningham, and £1,000 (less legacy duty) bequeathed by Mr. James Marshall for the completion of the tower, and special subscriptions amounting



to £2,600 for building and furnishing the Gymnasium. A sum of £30,000 was allocated to the Western Infirmary. New buildings, designed by the late Sir G. Gilbert Scott, were erected on the grounds of Gilmorehill; and in these buildings the classes of the University met for the first time in session 1870-71. In 1893 the buildings and grounds were extended by the gift of North Park House and Grounds for the use of the women students of the University.

## GOVERNMENT OF THE UNIVERSITY.

Previous to the Universities Act of 1858 the whole business of the University was transacted in three distinct courts—namely the Senate, the Faculty, and the Comitia.

The *Senate* consisted of the Rector, the Dean, the Principal, and all the Professors of the University. Meetings of the Senate were held for conferring degrees, and for the management of the libraries and other matters belonging to the University.

The *Faculty*, or College Meeting, consisted of the Principal, who presided, and the Professors of Divinity, Church History, Oriental Languages, Natural Philosophy, Moral Philosophy, Mathematics, Logic, Greek, Humanity, Civil Law, Medicine, Anatomy, and Practical Astronomy. The Members of Faculty had the administration of the whole revenue and property of the College, along with the right of exercising the patronage of eight professorships vested in the College. They also presented a Minister to the Parish of Govan, and had the gift of various bursaries.

The Constituent Members of the *Comitia* were the Rector, the Dean, the Principal, the Professors, and the Matriculated Students of the University. The Rector or Vice-Rector presided in this Court, and also in the Senate. Meetings of the Comitia were held for the election and admission of the Rector, for bearing the inaugural discourses of the Principals and Professors previously to their admission to their respective offices, and for promulgating the laws of the University.

Besides these a court, called the *Jurisdictio Ordinaria*, consisting of the Principal, the four Regents (viz., the Professors of Greek, Logic, Ethics, and Physics), and the Professor of Humanity, with the gowned students, met occasionally, for the exercise of discipline over the junior students.

By the Scottish Universities Act, 21 and 22 Vict., chap. 83, important changes were made in the constitution and government of the University. The distinction between the Faculty and the Senate was abolished; two new bodies, called the University Court and University Council, were instituted; and Commissioners were appointed, armed with extensive powers of revision and regulation, who issued ordinances, sanctioned by Her Majesty, for the administration of the affairs of the University.

Further changes were made by the Universities (Scotland) Act, 1889. A Committee of Her Majesty's Privy Council was constituted, styled the Scottish Universities Committee of the Privy Council. An Executive Commission was created and is now sitting, with power to repeal or modify any ordinance made under the Act of 1858. The Commissioners have issued ordinances, *inter alia*, for Degrees in Arts, Science, Law, and Medicine, and for the graduation and instruction of Women. They are also empowered to lay down regulations for the constitution of a Students' Representative Council, and to frame regulations under which that Council shall be entitled to make representations to the University Court.

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### CHANCELLOR.

The Chancellor is the head of the University, and, by himself or his deputy, has the privilege of conferring Academical Degrees upon persons found qualified by the Senate. All changes in the internal arrangements of the University must have the sanction of the Chancellor before being carried into effect. He is elected by the General Council, of which he is president. His office is held during life. He nominates an Assessor in the University Court, and he is empowered to appoint a Vice-Chancellor to discharge his office in his absence, so far as regards conferring Degrees, but in no other respect. The office of Vice-Chancellor has usually been, and is now, held by the Principal.

#### *Chancellors from the year 1642.*

- 1642. James Hamilton, Marquis of Hamilton.
- 1660. William Cunningham, Earl of Glencairn.
- 1661. Andrew Fairfowl, Archbishop of Glasgow.
- 1664. Alexander Burnet, „ „

1670. Robert Leighton, Archbishop of Glasgow.  
 1674. Alexander Burnett, „ „  
 1679. Arthur Ross, „ „  
 1684. Alexander Cairncross, „ „  
 1687. John Paterson, „ „  
 1692. John Carmichael, Earl of Hyndford.  
 1715. James Graham, Duke of Montrose.  
 1743. William Graham, „ „  
 1781. James Graham, „ „  
 1837. James Graham, „ „  
 1875. Sir William Stirling-Maxwell, Bart., M.P.  
 1878. Walter Francis, Duke of Buccleuch and Queensberry, K.G.  
 1884. JOHN HAMILTON DALRYMPLE, EARL OF STAIR, K.T.

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### RECTOR.

The Rector is elected by the matriculated students of the University, divided into four nations.<sup>1</sup> In the case of an equality of nations the Chancellor had, in accordance with the Act of 1858, the casting vote, but under the Act of 1889 the Commissioners have ordained that the election shall be determined by the majority of votes of all the students voting whenever the votes of the nations shall be equally divided. The election takes place upon the 15th November (the 16th, if the 15th falls on a Sunday); the term of office is three years. The Rector is the official President of the University Court.

#### *Rectors from 1773.*

1773. Charles Cathcart, Lord Cathcart.  
 1775. Lord Chief Baron Montgomerie.  
 1777. Andrew Stewart, Esq. of Torrance.  
 1779. James Maitland, seventh Earl of Lauderdale.  
 1781. Right Hon. Henry Dundas.  
 1783. Right Hon. Edmund Burke.  
 1785. Robert Graham, Esq. of Gartmore.  
 1787. Adam Smith, LL.D.  
 1789. Walter Campbell, Esq. of Shawfield.

<sup>1</sup> The nations are constituted as follows :—

1. The Natio Glottiana consists of all matriculated students born within the County of Lanark.

2. The Natio Transforthana consists of all matriculated students born within any of the Counties of Orkney and Shetland, Caithness, Sutherland, Ross, Inverness, Cromarty, Nairn, Moray, Banff, Aberdeen, Perth, Forfar, Kincardine, Clackmannan, Fife, Kinross, Argyre, Stirling, and Dumbarton.

3. The Natio Rothseliana consists of all matriculated students born within any of the Counties of Bute, Renfrew, and Ayr.

4. The Natio Loudoniana consists of all matriculated students not included in any of the other nations

- 1791. Thomas Kennedy, Esq. of Dunure.
- 1793. William Mure, Esq. of Caldwell.
- 1795. William M'Dowall, Esq. of Garthland.
- 1797. George Oswald, Esq. of Auchincruive.
- 1799. Right Hon. Sir Ilay Campbell, Lord President.
- 1801. William Craig, a Lord of Session.
- 1803. Lord Chief Baron Dundas.
- 1805. Henry Glassford, Esq. of Dugalston.
- 1807. Archibald Colquhoun, Esq. of Killermont.
- 1809. Archibald Campbell, Esq. of Blythswood.
- 1811. Lord Archibald Hamilton.
- 1813. Thomas Graham, Lord Lynedoch.
- 1815. David Boyle, Lord Justice Clerk.
- 1817. George Boyle, Earl of Glasgow.
- 1819. Kirkman Finlay, Esq., M.P.
- 1820. Francis Jeffrey, Esq., Advocate.
- 1822. Sir James Mackintosh, M.P.
- 1824. Henry Brougham, Esq., M.P.
- 1826. Thomas Campbell, LL.D.
- 1829. Henry Petty, Marquis of Lansdowne.
- 1831. Henry Cockburn, Esq., Solicitor-General.
- 1834. Lord Stanley, M.P.
- 1836. Sir Robert Peel, Bart., M.P.
- 1838. Sir J. G. R. Graham, Bart., M.P.
- 1840. John Campbell, Marquis of Breadalbane.
- 1842. Right Hon. Fox Maule, M.P.
- 1844. Andrew Rutherford, Esq.
- 1846. Lord John Russell.
- 1847. Colonel Mure of Caldwell.
- 1848. Thomas Babington Macaulay, Esq.
- 1850. Archibald Alison, Esq., Sheriff of Lanarkshire.
- 1852. Earl of Eglinton.
- 1854. Duke of Argyle.
- 1856. Sir Edward Bulwer Lytton.
- 1859. Earl of Elgin.
- 1862. Viscount Palmerston.
- 1865. John Inglis, Lord Justice Clerk.
- 1868. Lord Stanley (afterwards Earl of Derby).
- 1871. Right Hon. Benjamin Disraeli, M.P. (Earl of Beaconsfield).
- 1877. Right Hon. William Ewart Gladstone, M.P.
- 1880. Right Hon. John Bright, M.P.
- 1883. Right Hon. Henry Fawcett, M.P.
- 1884. Edmund Law Lushington, LL.D., D.C.L.
- 1887. Right Hon. Earl of Lytton, G.C.B., G.C.S.I., C.I.E.
- 1890. Right Hon. Arthur James Balfour, M.P.
- 1893. RIGHT HON. SIR JOHN ELDON GORST, M.P.

## DEAN OF FACULTIES.

From the beginning there has been in the University an officer of dignity with the title of Dean of Faculty or Dean of Faculties. The duties of the office, as originally constituted, were to exercise a superintendence over the studies, and, in conjunction with the Masters, to judge of the qualifications of applicants for degrees. From the year 1772 it was the duty of the Dean, in concert with the Rector and the Minister of Glasgow, to examine the accounts of the administration of the Revenue, and to give advice to the Principal and Professors, when it was necessary for them to institute a judicial inquiry into the conduct of any of their number. By the Universities Act of 1858 the Dean of Faculties was a member of the University Court, but in the enumeration of the constituent members of the new University Court in the Act of 1889 the name does not occur. The election is made annually by the Senate at the close of the winter session.

*Deans from the year 1800.*

1800. James Couper, D.D.	1841. Lord Dunfermline.
1802. Archd. Campbell, Esq., of Succoth.	1843. Sir T. Makdougall Brisbane, Bart.
1804. Gavin Gibb, D.D.	1845. A. Macdonochie, Lord Meadowbank.
1806. Duncan Macfarlan, D.D.	1847. Earl of Eglinton.
1808. Gavin Gibb, D.D.	1849. Colonel Mure of Caldwell, M.P.
1810. Duncan Macfarlan, D.D.	1851. W. Lockhart, Esq., M.P.
1812. Gavin Gibb, D.D.	1853. Colonel Mure.
1814. Stevenson Macgill, D.D.	1854. W. Lockhart, Esq.
1815. Archibald Campbell, Esq., M.P.	1857. W. Stirling, Esq., of Keir, M.P.
1817. Sir John Connel.	1860. J. Moncreiff, Lord Advocate.
1819. Archibald Campbell, Esq., M.P.	1863. Sir A. I. Campbell of Succoth.
1821. Sir John Connel.	1865. Henry Glassford Bell, Esq.
1823. Archibald Campbell, Esq., M.P.	1868. Sir James Fergusson, Bart.
1825. Sir John Connel.	1869. Sir Thos. E. Colcbrooke, Bart., M.P.
1827. Archibald Campbell, Esq., M.P.	1872. Archd. Orr Ewing, Esq., M.P.
1829. Sir John Connel.	1876. Alexander B. McGrigor, LL.D.
1831. Archibald Campbell, Esq.	1879. James King, Esq.
1833. Sir A. Campbell, Bart.	1882. R. W. Cochran-Patrick, LL.D., M.P.
1835. Archibald Campbell, Esq.	1885. Alexander Crum, Esq., M.P.
1837. Sir A. Campbell, Bart.	1888. ROBERT BERRY, LL.D., Sheriff of Lanarkshire.
1839. Kirkman Finlay, Esq.	

## PRINCIPAL.

The office of Principal or Principal Regent of the College was almost coeval with the foundation of the University, and was regulated anew by James VI., in 1577. It is in the appointment of the Crown. The Principal is President of the Senatus Academicus; and is also, *ex officio*, a member of the University Court.

*Principals from the year 1574.*

1574. Andrew Melville.	1684. James Fall.
1580. Thomas Smeaton.	1690. William Dunlop.
1582. Patrick Sharpe.	1701. John Stirling.
1615. Robert Boyd.	1728. Neil Campbell.
1622. John Cameron, D.D.	1761. Wm. Leechman, D.D.
1626. John Strang, D.D.	1786. Archd. Davidson, D.D.
1650. Robert Ramsay.	1803. William Taylor, D.D.
1653. Patrick Gillespie.	1823. Duncan M'Farlan, D.D.
1661. Robert Baillie, D.D.	1858. Thomas Barclay, D.D.
1662. Edward Wright.	1873. JOHN CAIRD, D.D.

## UNIVERSITY COURT.

The University Court consists of (*a*) the Rector, (*b*) the Principal, (*c*) the Lord Provost of Glasgow for the time being, (*d*) an Assessor nominated by the Chancellor, (*e*) an Assessor nominated by the Rector, (*f*) an Assessor nominated by the Lord Provost, Magistrates, and Town Council of Glasgow, (*g*) four Assessors elected by the General Council, (*h*) four Assessors elected by the Senatus Academicus. There is a further provision in the Act of 1889 for the representation of affiliated Colleges.

*Assessors since the University Court was constituted.*

## CHANCELLOR.

1859. John Robertson, D.D., Glasgow.
1865. A. Sym, D.D., New Kilpatrick.
1871. James Pearson, D.D., Strathblane.
1874. Robert Jamieson, D.D., Glasgow.
1878. J. A. Campbell, LL.D., Stracathro.
1887. SIR JAMES KING, BART., LL.D.

## RECTOR.

1860. Thomas Buchanan, Esq.
1863. Walter Buchanan, Esq., M.P.
1866. Archibald Orr Ewing, Esq.
1869. James A. Campbell, LL.D.
1878. Alexander Crum, Esq.
1880. Charles Cameron, M.D., LL.D., M.P.
1884. A. B. M'Grigor, LL.D.
1887. James Grahame, Esq.
1890. Lord Blythwood, LL.D.
1893. MATTHEW P. FRASER, LL.B.

## LORD PROVOST, MAGISTRATES, AND TOWN COUNCIL OF GLASGOW.

1889. JAMES COLQUHOUN, LL.D.
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## GENERAL COUNCIL.

1859. Andrew Bannatyne, LL.D.  
 1864. Lord Kinloch.  
 1867. Anderson Kirkwood, LL.D.  
 1887. R. W. Cochrane-Patrick, LL.D.  
 1889. David Hamay, Esq.  
 1889. Hector C. Cameron, M.D.  
 1889. Sir John Neilson Cuthbertson.  
 1891. Rev. J. W. King, M.A., D.D.  
 1891. D. C. McVail, M.B.  
 1893. Hector C. Cameron, M.D.  
 1893. Sir John Neilson Cuthbertson.

## SENATUS ACADEMICUS.

- 15th Nov., 1859. Professor W. Ramsay, M.A.  
 11th Dec., 1863. Professor R. Buchanan, LL.D.  
 12th Dec., 1867. Professor Allen Thomson, M.D.  
 11th Jan., 1872. Professor Sir W. Thomson.  
 13th Jan., 1876. Professor Cowan, M.D.  
 29th Jan., 1880. Professor Berry, M.A., LL.D.  
 31st Jan., 1884. Professor Dickson, D.D., LL.D.  
 9th Feb., 1888. Professor Ramsay, LL.D.  
 28th Nov., 1889. Professor Leishman, M.D.  
 28th Nov., 1889. Sheriff Berry, LL.D.  
 28th Nov., 1889. Professor Stewart, D.D.  
 28th Nov., 1890. PROFESSOR RAMSAY, LL.D.  
 30th Nov., 1891. Professor Leishman, M.D.  
 30th Nov., 1893 (1891). PROFESSOR GAIRDNER, M.D., LL.D.  
 28th Nov., 1892. SHERIFF BERRY, LL.D.  
 28th Nov., 1893. PROFESSOR STEWART, D.D.

The Rector's Assessor continues in office three years, and the other Assessors four years.

The University Court is a body corporate, in which is vested all the property belonging to the University. By the Act of 1889 it is enacted that the University Court, in addition to the powers conferred upon it by the Act of 1858, shall, subject to any ordinances made by the Commissioners, have power—

1. To administer the whole revenue and property of the University, including share of annual Government Grant, and bursary and other mortifications.

2. To review any decision of the Senate, appealed against by a member of Senate or other member of the University interested, and to receive representations and reports from the Senate and the General Council.

3. To review, on representation by any member of the University Court or by any member of Senate, any decision of the Senate in the exercise of its powers of regulating and superintending the teaching and discipline of the University; but decisions in matters of discipline can be reviewed only on appeal by a member of Senate or by a member of the University directly affected.

4. To appoint professors to chairs in University patronage; to appoint examiners and lecturers; and to recognize for graduation purposes the teaching of any college or individual teacher, under any regulations laid down by the Commissioners, which regulations, after the expiration of the powers of the Commissioners, may from time to time be modified or altered by the Universities Committee.

5. To define on application by any member of the Senate the nature and limits of a professor's duties under his commission, subject to appeal to the Universities Committee.

6. To take proceedings against a principal or professor, University lecturer, assistant, recognized teacher or examiner, or any other person employed in teaching or examining.

7. To appoint from persons not being members of Senate one third of the members of any standing committee or committees charged, by ordinance of the Commissioners, with superintendence of University libraries or museums, and to review any decision of the Senate regarding the recommendations of such committee or committees.

8. To appoint committees of its own number, consisting of not less than five members, to report on any business entrusted to them or to carry out special instructions.

9. To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.

10. After the expiration of the powers of the Commission to found new professorships with the approval of the Universities Committee. After such expiration no new professorship shall be founded otherwise.

The Court is entrusted with the patronage of several of the Professorships, appoints the Assistant Examiners for Degrees, and is a court of final appeal in any dispute which may arise in making up the Register of the General Council. Seven Members of the Court constitute a quorum. The Rector is President—in his absence, the Principal.

An abstract of the minutes of the meeting of the University Court during 1893-94 will be found towards the end of the Calendar.

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### SENATUS ACADEMICUS.

The Senatus Academicus consists of the Principal and the whole of the Professors, and is entrusted with the ordinary superintendence and regulation of the teaching and discipline of the University. It appoints two-thirds of the members of any standing committee or committees charged by ordinance of the Commissioners with the immediate superintendence of University libraries or museums. It receives in the first instance all reports by such committee or committees, and, subject to the review of the University Court, it may confirm, modify, or reject the recommendations in such reports. The Principal, as President, has a deliberative and a casting vote. One-third of the Senate constitute a quorum.

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### FACULTIES.

The Universities Commissioners, by ordinance No. 31, dated 5th June, 1893, settled the constitution of the several Faculties in this University, as follows :—I. The Faculty of Arts consists of the Professors of the following subjects, viz., English Language and Literature, Humanity, Greek, Hebrew and Semitic Languages, Mathematics, Natural Philosophy, Logic and Rhetoric, Moral Philosophy, History. II. The Faculty of Science consists of the Professors of the following subjects, viz., Mathematics, Natural Philosophy, Astronomy, Chemistry, Natural History, Botany, Anatomy, Physiology, Civil Engineering and Mechanics, Naval Architecture. III. The Faculty of Medicine consists of the Professors of the following subjects, viz., Chemistry, Natural History, Botany, Anatomy, Physiology, Pathology, Materia Medica, Medicine, Surgery, Midwifery, Forensic Medicine, Clinical Medicine, Clinical Surgery. IV. The Faculty of Law consists of the Professors of the following subjects, viz., Law, Forensic Medicine, Conveyancing. V. The Faculty of Divinity consists of the Professors of the following subjects, viz., Divinity, Divinity and Biblical Criticism, Ecclesiastical History, Hebrew and Semitic Languages. The University Court has power to transfer Chairs from one Faculty to another, and in the event of the foundation of new

Chairs, to determine to which Faculty or Faculties such Chairs shall belong.

The Professors constituting each Faculty annually elect one of their number to be Dean of the Faculty.

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#### LECTURERS.

By ordinance No. 17<sup>1</sup> of the Universities Commissioners (1889), the University Court is empowered to appoint, after consultation with the Senatus, Lecturers, whose teaching shall (unless otherwise determined by the University Court) qualify for graduation. They are appointed for a period not exceeding five years, but may be re-appointed. University Assistants or Demonstrators are eligible for appointment as Lecturers and *vice versa*; and both offices may be held at the same time by the same person.

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#### BOARDS OF STUDIES.

By ordinance No. 11 of the Universities Commissioners (1889), it is provided that the Senate shall institute Boards of Studies corresponding as nearly as may be to the departments of study for graduation in Arts. Each Board of Studies consists of the Principal, the Dean of the Faculty of Arts, and such other members of the Senate and Lecturers in the University as the Senate may from time to time select, a member of the Board being appointed Convener by the Senate. The functions of these Boards are defined in ordinance No. 11, sections xviii. and xix.

Provision is made in ordinance No. 42<sup>2</sup> for the institution of one or more Boards of Studies in each of the Faculties of Medicine and Science. In Medicine the constituent members of the Board or Boards are Professors in the Faculty of Medicine, together with such Professors in other Faculties whose subjects qualify for graduation in Medicine, and such Lecturers in the University as the Senate may from time to time select. The Board or Boards of Studies in Science are similarly constituted *mutatis mutandis*. The Dean of the Faculty of Medicine is Convener of each Board of Studies in Medicine; the Senate appoints the Convener of each Board in Science.

<sup>1</sup> This ordinance is printed at length in the University Calendar for 1893-94, at pp. 504, 505.

<sup>2</sup> This ordinance, if approved by Her Majesty in Council before 1st October, 1894 will come into force at that date.

## UNIVERSITY ASSISTANTS OR DEMONSTRATORS.

By ordinance No. 17<sup>1</sup> of the Universities Commissioners (1889), the University Court is empowered to determine, after consultation with the Senatus, the number and grade of the Assistants, if any, to be assigned to each Professor. The appointments are made by the University Court on the recommendation of the Professors. The duties of each Assistant are defined by the Professor, with the approval of the Senate. The Assistants are recognized as Officers of the University, and are styled University Assistants or Demonstrators, as the University Court may determine.

The Arnott and Thomson Demonstratorship, founded in 1875, is attached to the Chair of Natural Philosophy; the Muirhead Demonstratorship, founded in 1877, to the Chair of Physiology; and the Baxter Demonstratorship in Geology, founded in 1889, to the Chair of Natural History.

There is also an Assistantship to the Professor of Engineering, which was founded in 1876 by the bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow, with a salary of £140 or thereby, and designated in memory of her father, the Young Assistantship. The appointment is made by the University Court in conjunction with the Professor of Engineering.

## EXAMINERS FOR DEGREES.

By ordinance No. 13, §§ xiv., xv., xvi., of the Universities Commissioners (1889), the Examiners for graduation in Arts, Science, and Medicine respectively are the Professors whose subjects qualify for graduation, together with such Lecturers in the University and such additional Examiners, appointed by the University Court, as the Court may deem necessary. In the case of Medicine, the Court is required to make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

By ordinances No. 39, § vii., and No. 40, § vii.,<sup>2</sup> of the Universities Commissioners (1889), the Examiners for graduation

<sup>1</sup> See first note on preceding page.

<sup>2</sup> These ordinances, if approved by Her Majesty in Council before 1st October, 1894, will come into force at that date.

in Law are the Professors and Lecturers whose subjects qualify for graduation, and additional Examiners appointed by the University Court.

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#### GENERAL COUNCIL.

[*For names, etc., of Members, see Appendix.*]

The General Council as constituted by the Scottish Universities Act, 1858 (21 and 22 Vict., chap. 83), by the Representation of the People (Scotland) Act, 1868 (31 and 32 Vict., chap. 84), and by the Universities Elections Amendment (Scotland) Act, 1881 (44 and 45 Vict., chap. 40), consists of the following *ex officio* Members, viz., the Chancellor, the Members of the University Court from and after their first election, and the Professors, and also of the following persons after registration, viz., all Masters of Arts of the University, and all persons on whom the University has, after Examination, conferred the Degree of Doctor of Medicine, or Doctor of Science, or Bachelor of Divinity, or Bachelor of Laws, or Bachelor of Medicine, or Bachelor of Science, or any other Degree instituted since 13th July, 1868; and also all persons who, previous to the 2nd August, 1861, had, as matriculated students, given regular attendance on the course of study in this University for four complete sessions, or such regular attendance for three complete sessions in this University, and regular attendance for one such complete session in any other Scottish University, the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

Members of the Council must have their names enrolled in a book kept for the purpose by the Registrar. The Register of the Council is made up annually in the month of December, for the year following, and includes the names of all members entered on the Registration Book on or before the 30th day of November in each year. The Registration Fee, which is a payment for life, is 20s.

By section 16 of the Act 44 and 45 Vict., chap. 40, it is enacted that no person shall be allowed, after examination, to graduate at any of the Universities of Scotland until he shall have paid the Registration Fee; and it is further enacted that every person who has hitherto been, or who shall in the future become, *ex officio*, a member of the General Council of any of the



Universities shall, on payment of the Registration Fee, be put and continued on the Register of Members of General Council of such University during his life, and shall be entitled to all the privileges of a Member of Council. The Act also provides that no person, subject to any legal incapacity, shall be entitled to vote at any parliamentary election, or exercise any other privilege as a member of the General Council.

The corrupt payment of any Registration Fee is punishable as bribery.

The Council meets twice every year—viz., on the last Wednesday of October, and the first Wednesday of April. In addition to these statutory meetings the Council may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint committees to investigate into and report upon any matter remitted to them, or to carry out instructions given to them by the Council. The quorum of the General Council has been fixed by the Universities Commissioners at ten for every complete thousand or fraction of a thousand on the Register, so that for the present year sixty members are requisite to constitute a quorum, there being 5129 names on the Register, but this provision does not apply to the statutory half-yearly meetings. It is competent to the Council to take into consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time to the University Court, who shall return to the Council their deliverances thereon. The annual reports as to the statistics of attendance and as to the finances of the University, made by the University Court to the Secretary for Scotland, are to be laid by him before the General Council. To it are also to be communicated all new ordinances, or changes of existing ordinances, which may be proposed by the University Court.

The Chancellor and four of the Assessors in the University Court are elected by the Council. The manner in which these officers are elected is regulated by Ordinance of the Universities Commissioners. The President of the Council is the Chancellor; whom failing, the Rector; whom failing, the Principal; whom failing, the Chancellor's Assessor; whom failing, the Rector's Assessor. In the absence of all these officials, a



Chairman shall be elected by the meeting; but in the election of Assessors the members of Senate may not take part.

The General Councils of the Universities of Glasgow and Aberdeen jointly return a representative to Parliament.

*Members of Parliament for the Universities of Glasgow and Aberdeen.*

1868. Right Hon. James Moncrieff, LL.D., Lord Advocate.

1869. Right Hon. Edward S. Gordon, LL.D., Dean of the Faculty of Advocates.

1876. Right Hon. William Watson, LL.D., Lord Advocate.

1880. JAMES ALEXANDER CAMPBELL, LL.D.

### STUDENTS' REPRESENTATIVE COUNCIL.

The Students' Representative Council consists of representatives from the different years of all the different Faculties in the University, and its aims are (1) to represent the Students in matters affecting their interests; (2) to afford a recognized means of communication between the Students and the University authorities; (3) to promote social and academic unity among the students. A Union Committee appointed by the Council completed in Session 1889-90 the arrangements for opening the "Glasgow University Union." The Council has various Sub-Committees—an Inter-Universities Committee, a Magazine Committee, which conducts during the winter session the "Glasgow University Magazine" (published weekly), an Amusements Committee, and a Song Book Committee.

#### *Presidents of the Students' Representative Council.*

1885-86. R. M. Wenley, M.A. 1889-90. Robert Bell, M.B., C.M.

1886-87. Gavin Lambie, M.A. 1890-91. William Newlands.

1887-88. C. E. Robertson, M.B., C.M. 1891-92. John White, M.A.

1888-89. John H. Harley, M.A. 1892-93. R. S. Horne, M.A.

1893-94. JOHN H. PAGAN, B.D.

### STUDENTS.

Number of Students in the several Faculties, Session 1893-94:—

MEN.									
In Arts, -	-	-	-	-	-	-	-	-	781
Science, -	-	-	-	-	-	-	-	-	130
Theology, -	-	-	-	-	-	-	-	-	86
Medicine (including Summer Matriculation of 1893, 122),	-	-	-	-	-	-	-	-	716
Law (including Summer Matriculation of 1893, 2),	-	-	-	-	-	-	-	-	188
Arts and Medicine, -	-	-	-	-	-	-	-	-	3
Arts and Law, -	-	-	-	-	-	-	-	-	5
Arts and Theology, -	-	-	-	-	-	-	-	-	4
Arts and Science, -	-	-	-	-	-	-	-	-	2

## WOMEN.

In Arts, - - - - -	104
Medicine (including Summer Matriculation of 1893, 8), - - -	60
Arts and Medicine, - - - - -	1
	<hr/> 165
Total, - - - - -	<hr/> 2080

Ordinance No. 50<sup>1</sup> of the Universities Commissioners (1889), requires that each student shall pay a matriculation fee of one guinea, at the commencement of each winter session, for the whole academical year then next ensuing; and any student desirous of attending a class or classes during a summer session, without having matriculated at the commencement of the immediately preceding winter session, shall in respect of such summer session pay a matriculation fee of half a guinea. The University Court is empowered in special circumstances to permit persons who have not matriculated to attend any single class in any Faculty, on payment of an Entrance Fee of Five Shillings in addition to the authorized class fee, subject to the following provisions, viz. :—(1) that attendance on any class without payment of the matriculation fee, shall not qualify for graduation in any Faculty, (2) that persons who have not paid the matriculation fee shall not be entitled to a certificate of attendance on any class, and (3) that payment of such entrance fee shall not confer any University privilege other than the right of attendance on such class. The office of the Clerk of Senate will be open for the purpose of Matriculation on and after Monday, 15th October.

Students are entitled, after matriculation, to the privilege of admission to the University Library, and, under certain conditions, to the Hunterian Museum; they are also entitled to vote for the Lord Rector. They are classified as students in Arts, Science, Divinity, Law, and Medicine, according to the nature of their studies; and they are likewise, for academical purposes, divided into Togati and Non-Togati—the students of the Humanity, Greek, Logic, Ethics, and Natural Philosophy classes being Togati or gown students, from being required to wear the ancient academical robe—a scarlet cloak.

<sup>1</sup> This Ordinance, if approved by Her Majesty in Council before 1st October, 1894, will come into force at that date. In the event of its not being so approved, the regulations as to matriculation contained in the University Calendar for 1893-94 will hold good.

Under the Non-Togati, or ungowned students, are comprehended all those who, having finished their course of instruction in Arts, are prosecuting their studies in the other Faculties, with a more immediate view to their intended professions; and it comprises also other persons resident in the city or its vicinity, who, though engaged in other avocations, are disposed to cultivate literary pursuits, or to extend their acquaintance with some favourite branches of learning or science, by attending the lectures given at the University.

A distinction is also made between Public and Private students. The former are required to undergo examinations, and to read or perform exercises on the subjects treated of in the lectures,—and they only are allowed to reckon their sessions of study as a qualification for proceeding to degrees in the several Faculties.

By Ordinance No. 18<sup>1</sup> of the Universities Commissioners (1889) the University Court was empowered to admit women to graduation, and to provide for their instruction, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. Under this Ordinance women were for the first time admitted as matriculated students of this University in Session 1892-93.

Medical students have access, for the usual attendance in the wards and on the Clinical Lectures, to the Royal Infirmary situated in the Eastern part of the city, and to the Western Infirmary in the immediate vicinity of the University. In the Royal Infirmary 110 beds are appropriated to the clinical instruction of women.

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#### UNIVERSITY CHAPEL.

The University Chapel is under the management of a Committee of Senate, of which the Principal is Convener.

Public Worship is celebrated every Sunday afternoon during the Winter Session at half-past Two o'clock, in the Bute Hall. The services are conducted by graduates of this University and other clergymen of various denominations.

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#### GYMNASIUM.

This building was erected by public subscription, and fitted

<sup>1</sup> This Ordinance is given in full in the University Calendar for 1892-93, pp. 504-506.

according to the most improved models, under the superintendence of the late Mr. Maclaren of Oxford, at a total cost of £2600, and was opened for the first time in January, 1872.

The instructor, Mr. Benson, carries out the system of Mr. Maclaren in its entirety. Students are carefully examined and measured on joining, and the exercises graduated according to strength and proficiency. Each student joins a class which meets at the same hour three days in the week.

Gentlemen not connected with the University are admitted to the use of the Gymnasium, and special evening classes are formed for their benefit.

Fees.—1. *For all Students*: One month, 5s. ; Two months, 8s. 6d. ; Three months, 12s. ; Six months, 20s. 2. *For Non-Students*: the Quarter (*i.e.*, twice a-week for three months), 15s. ; whole season (seven months), 35s.

The Oxford Silver Medal, presented annually by the late Mr. Maclaren, for competition among the students, is continued by the Gymnasium, and, at the competition in March, 1894, was gained by Alexander B. Sloan. The Bronze Medal for competition among the non-students is also continued.

Classes are also formed after Christmas to meet twice a week for instruction in boxing and fencing.

The Gymnasium is managed by a joint-committee of professors and students.

*Hon. Treasurer*, Matthew P. Fraser, LL.B., 91 West Regent Street, Glasgow.

*Hon. Secretary*, Charles W. Stewart, 18 Annfield Terrace, W.

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#### EXAMINATION FOR CANDIDATES FOR THE ARMY.

This Examination, which the Secretary of State for War has accepted as equivalent to the Examination at the English and Irish Universities for similar candidates, consists of three out of the seven Examinations required for the ordinary degree of M.A., but one subject must be taken out of each of the three separate Departments of Classical Literature, Mental Philosophy, and Mathematics. Candidates must not be over twenty-one years of age. Examination Fee, £2 2s. This Examination is intended only for students who have actually attended classes in the University.

## II.—TABLE OF UNIVERSITY FEES.

### I.—MATRICULATION FEES.<sup>1</sup>

At the commencement of each Academical Year, which extends from 1st October to 30th September, and includes both Winter and Summer Sessions, ...	£1 1 0
At the commencement of each Summer Session, if the Student has not matriculated for the Academical Year then current, ... ..	0 10 6

### II.—ENTRANCE FEES.<sup>1</sup>

On admission, in special circumstances, of persons who are not matriculated Students of the University to any single class in any Faculty, .. ..	0 5 0
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N.B.—Attendance under this Regulation does not qualify for Graduation, and no Certificate for such attendance is given. The Entrance Fee confers no University privileges other than the right of attendance above mentioned.

### III.—ENROLMENT FEES<sup>1</sup> (extra-mural lectures).

At the commencement of each year of attendance on the lectures of Extra-Academical Teachers in Glasgow, whose Lectures are recognized for Graduation in Medicine or Science, ... ..	1 1 0
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### IV.—EXAMINATION FEES.<sup>1</sup>

For Preliminary Examinations in Arts, Science, or Medicine—	
On each entry for Examination, .. ..	0 10 6
For Degree of Master of Arts (M.A.)—New Regulations—	
The Fee for this Degree is ... ..	5 5 0
Payable £1 ls. on entering for Examination in each subject till £5 5s. are paid.	
For Degree of Bachelor of Science (B.Sc.)—New Regulations—	
The Fee for this Degree is ... ..	5 5 0
Payable £1 ls. on entering for Examination in each subject till £5 5s. are paid.	
For Certificate in Engineering Science—	
On entering for last subject of Examination, ...	1 1 0
For Degree of Doctor of Science (D.Sc.)—	
On delivery of Diploma, ... ..	10 10 0
For Degrees of Bachelor of Medicine (M.B.), and Bachelor of Surgery (Ch.B.)—	
On entering for First Professional Examination, ...	6 6 0
" Second " " ..	6 6 0
" Third " " ..	5 5 0
" Fourth " " ..	5 5 0

<sup>1</sup> These Fees are regulated by Ordinance No. 50 of the Universities Commissioners (1889), which, if approved by her Majesty in Council before 1st October, 1894, will come into force at that date. In the event of its not being so approved, the fees will be regulated by the Table contained in the University Calendar for 1893-94, pp. 41-43.

For Degree of Doctor of Medicine (M.D.)—Old Regulations—			
On lodging Thesis, ... ..	£15	8	0
(This includes £10 3s. of Government Duty, etc.)			
For Degree of Doctor of Medicine (M.D.)—New Regulations—			
On entering for Examination, ... ..	20	13	0
(This includes £10 3s. of Government Duty, etc.)			
For Degree of Master of Surgery (Ch.M.)—			
On entering for Examination, ... ..	10	10	0
For Diploma in Public Health—			
On entering for Examination, ... ..	5	5	0
For Degree of Bachelor of Laws (LL.B.)—New Regulations—			
The Fee for this Degree is ... ..	6	6	0
Payable £1 1s. on entering for Examination in each subject till £6 6s. are paid.			
For Degree of Bachelor of Law (B.L.)—New Regulations—			
The Fee for this Degree is ... ..	5	5	0
Payable £1 1s. on entering for Examination in each subject, balance at Graduation.			
For Degree of Bachelor of Divinity (B.D.)—			
On entering for Examination in First Department,	2	12	6
“ “ “ Second “	2	12	6
For Examination of Candidates for the Army—			
On entering for Examination, ... ..	2	2	0

V.—CLASS FEES (*see* pages 48-52 and 109, 110).

## VI.—LIBRARY FEES.

Each Member of the General Council, each year (commencing 15th October), in which he wishes use of Library, ... ..	0	10	6
Or,			
This may be compounded for by a single payment of ...	5	5	0
Every Matriculated Student enrolled in a Class, and every Extra-Mural Student, who wishes use of Library, a <i>deposit</i> of ... ..	1	0	0
Special Readers—each year in which the privilege is granted, ... ..	0	10	6

## VII.—REGISTRATION FEE.

All Candidates proceeding to Graduation after Examination who are not already members of the General Council are required by the Act 44 and 45 Vict., Ch. 40, to pay the Registration Fee, with a view to their names being enrolled in the General Council. The Fee is .. .. .	1	0	0
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## III.—SEPARATE FACULTIES AND CLASSES.

The University Classes will meet as follows, daily, unless otherwise specified :—

## WINTER SESSION 1894-95.

## I.—ARTS.

## MONDAY, 22ND OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Latin, Junior,</i> . . . . .	8 a.m., . . . . .	£3 3	} PROF. RAMSAY.
<i>—— Middle,</i> . . . . .	8 a.m. and 11 a.m., . . . . .	3 3	
<i>—— Senior,</i> . . . . .	9 a.m. and 1 p.m., . . . . .	3 3	
<i>—— Private or Honours,</i> . . . . .	1 p.m., . . . . .	3 3 <sup>1</sup>	
<i>—— Latin Prose,</i> . . . . .	1 p.m., Wed., . . . . .	1 1	
<i>Greek, Tirones,</i> . . . . .	12 noon, . . . . .	3 3	} PROF. MURRAY.
<i>—— Proscctiones,</i> . . . . .	10 a.m., . . . . .	3 3	
<i>—— Senior,</i> . . . . .	8 a.m. and 12 noon, . . . . .	3 3	
<i>—— Honours,</i> . . . . .	12 noon, . . . . .	3 3 <sup>1</sup>	
<i>English,</i> . . . . .	4.30 p.m., . . . . .	3 3 <sup>1</sup>	} PROF. BRADLEY.
<i>—— Honours,</i> . . . . .	2.30 p.m., Mon., Wed., Fri., . . . . .	3 3	
<i>Hebrew, Junior,</i> . . . . .	10 a.m., . . . . .	3 3	} PROF. ROBERTSON.
<i>—— Senior,</i> . . . . .	9 a.m., . . . . .	3 3	
<i>Syriac,</i> . . . . .	. . . . .	2 2	
<i>Logic and Metaphysics,</i> . . . . .	{ 9 a.m. daily, and 11 a.m. on Friday, . . . . .	3 3	} PROF. VEITCH.
<i>—— Higher Course,</i> . . . . .	1 p.m., Mon., Tues., & Th., . . . . .	3 3	
<i>Moral Philosophy,</i> . . . . .	8 a.m., . . . . .	3 3	} PROF. ———
<i>—— Higher Course,</i> . . . . .	2 p.m., Mon., Wed., Fri., . . . . .	3 3	
<i>Political Economy (Half Course),</i> . . . . .	{ 5.30 p.m., Mon., Tues., Wed., and Th., . . . . .	2 2	} Dr. Smart, Lecturer.
<i>Education (Theory, History, and Art of),</i> . . . . .	3 p.m., . . . . .	3 3	
<i>Mathematics, First,</i> . . . . .	9 a.m. or 10 a.m., . . . . .	3 3	} PROF. JACK.
<i>—— Second,</i> . . . . .	12 noon or 9 a.m., . . . . .	3 3	
<i>—— Honours (Intermed.),</i> . . . . .	10 a.m., . . . . .	3 3	
<i>—— Honours (Advanced),</i> . . . . .	11 a.m., Mon., Wed., Fri., . . . . .	3 3	
<i>Natural Philosophy,</i> . . . . .	9 a.m., . . . . .	4 4 <sup>2</sup>	} PROF. LORD KELVIN.
<i>—— Higher Course,</i> . . . . .	12 noon, . . . . .	4 4 <sup>2 3</sup>	
<i>Physical Laboratory,</i> . . . . .	10 a.m. to 4 p.m., . . . . .	6 6	} PROF. BECKER.
<i>Astronomy, First, (Half Course),</i> . . . . .	{ 3 p.m., Mon., Wed., and alternate Fri., . . . . .	2 2	
<i>Chemistry,</i> . . . . .	10 a.m., . . . . .	3 3 <sup>1</sup>	} PROF. FERGUSON.
<i>Chemical Laboratory,</i> . . . . .	10 a.m. to 4 p.m., . . . . .	10 10	
<i>—— (Half Session),</i> . . . . .	. . . . .	5 5	

<sup>1</sup> Fee for a Second or subsequent Session, £2 2s.

<sup>2</sup> Fee for a Second or subsequent Session, £3 3s.

<sup>3</sup> Fee for Higher Course following upon Ordinary Course, £3 3s.



<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Zoology</i> , . . . . .	9 a.m., . . . . .	£3 3 <sup>1</sup>	} PROF. YOUNG.
<i>Zoological Laboratory</i> , . . . . .	10 a.m. to 4 p.m., . . . . .	3 3	
<i>Botany</i> (in Summer), . . . . .	. . . . .	. . . . .	PROF. BOWER.
<i>Zoology</i> (Half Course—Jan.), . . . . .	5.30 p.m., . . . . .	3 3 <sup>1</sup>	PROF. YOUNG.
<i>History</i> , . . . . .	. . . . .	3 3	} PROF. ———
——— <i>Honours Course</i> , . . . . .	. . . . .	3 3	
<i>Constitutional Law and</i> } . . . . .	5.30 p.m., . . . . .	3 3	} Mr. ———
<i>History</i> (Half Course), . . . . .			
<i>Roman Law</i> , . . . . .	8 a.m., . . . . .	4 4	———, Lecturer.
<i>Public International Law</i> } . . . . .	5.30 p.m., . . . . .	3 3	} Mr. W. G. Miller,
(Half Course), . . . . .			

## II.—SCIENCE.

MONDAY, 22ND OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Mathematics, First</i> , . . . . .	9 a.m. or 10 a.m., . . . . .	£3 3	} PROF. JACK.
——— <i>Second</i> , . . . . .	12 noon or 9 a.m., . . . . .	3 3	
——— <i>Honours (Intermed.)</i> , . . . . .	10 a.m., . . . . .	3 3	
——— <i>Honours (Advanced)</i> , . . . . .	11 a.m., Mon., Wed., Fri., . . . . .	3 3	
<i>Natural Philosophy</i> , . . . . .	9 a.m., . . . . .	4 4 <sup>2</sup>	} PROF. LORD KELVIN.
——— <i>Higher Course</i> , . . . . .	12 noon, . . . . .	4 4 <sup>23</sup>	
<i>Physical Laboratory</i> , . . . . .	10 a.m. to 4 p.m., . . . . .	6 6	
<i>Astronomy, First</i> , . . . . .	{ 3 p.m., Mon., Wed., and alternate Fri., . . . . .	2 2	} PROF. BECKER.
——— <i>Second</i> , . . . . .			
——— <i>First and Second in same Session</i> , . . . . .	{ 3 p.m., Tues., Th., and alternate Fri., . . . . .	2 2	
<i>Chemistry</i> , . . . . .	10 a.m., . . . . .	3 3 <sup>1</sup>	
<i>Chemical Laboratory</i> , . . . . .	10 a.m. to 4 p.m., . . . . .	10 10	} PROF. FERGUSON.
(Half Session), . . . . .	. . . . .	5 5	
<i>Anatomy, Junior</i> , . . . . .	1 p.m., . . . . .	3 3 <sup>1</sup>	} PROF. CLELAND and Demonstrators.
——— <i>Senior</i> , . . . . .	11 a.m., . . . . .	3 3 <sup>1</sup>	
<i>Practical Anatomy</i> , . . . . .	9 a.m. to 4.45 p.m., . . . . .	3 3	} PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Physiology</i> , . . . . .	12 noon, . . . . .	3 3	
<i>Practical Physiology</i> , . . . . .	(See page 84), . . . . .	3 3	
——— <i>Advanced</i> (See page 85), . . . . .	. . . . .	3 3	
<i>Physiological Laboratory</i> , . . . . .	10 a.m. to 4 p.m., . . . . .	10 10	} PROF. YOUNG.
(Half Session), . . . . .	. . . . .	5 5	
<i>Natural History—</i> <i>Zoology</i> (Oct.), . . . . .	9 a.m., . . . . .	3 3 <sup>1</sup>	} PROF. YOUNG.
<i>Geology and Mineralogy</i> (Jan.), . . . . .	5.30 p.m., . . . . .	3 3 <sup>1</sup>	
<i>Zoological Laboratory</i> , . . . . .	10 a.m. to 1 p.m., . . . . .	3 3 <sup>1</sup>	
<i>Botany, Advanced</i> , . . . . .	(See page 82), . . . . .	3 3	} PROF. BOWER.
<i>Botanical Laboratory, Advanced</i> (Jan.—see page 82), . . . . .	. . . . .	3 3	

<sup>1</sup> Fee for a Second or subsequent Session, £2 2s.<sup>2</sup> Fee for a Second or subsequent Session, £3 3s.<sup>3</sup> Fee for Higher Course following upon Ordinary Class, £3 3s.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Civil Engineering, Class I.,</i>	8 a.m., Mon., Wed., Fri.,	£2 2	} PROF. BARR.
————— <i>II.,</i>	{ 8 a.m., Tues., Thurs., and Sat., . . .	2 2	
————— <i>III.,</i>	(not in 1894-95). . .	2 2	
————— <i>IV.,</i>	9 a.m. daily, ex. Sat.,	3 3	
<i>Engineering Drawing, etc.,</i>	{ 9 a.m. till 5 p.m. daily, except Sat., . . .	3 3	} PROF. BARR.
————— ( <i>Second Session</i> ),	. . .	3 3 <sup>2</sup>	
<i>Naval Architecture and Marine Engineering, Junior,</i>	{ 11 a.m., Mon., Wed., and Fri., . . .	3 3	} PROF. BILES.
————— <i>Senior,</i>	11 a.m., Mon., Tu., & Th.,	3 3	
————— <i>Practical, Junior,</i>	{ 2 till 5 p.m., Tu., Wed., Th., and Fri., . . .	3 3	
————— <i>Senior,</i>	{ 2 till 5 p.m., Tu., Wed., Th., and Fri., . . .	3 3	

## III.—MEDICINE.

## MONDAY, 22ND OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Natural History, Zoology,</i>	9 a.m., . . .	£3 3 <sup>1</sup>	} PROF. YOUNG.
<i>Zoological Laboratory,</i>	10 a.m. to 1 p.m., . .	3 3 <sup>1</sup>	
<i>Botanical Laboratory, (Jan., Feb., Mar.),</i>	10 a.m.,	3 3	PROF. BOWER.
<i>Clinical Medicine,</i>	9 a.m., . . .	(see p. 53)	} PROF. M'CALL ANDERSON and PROF. GAIRDNER.
<i>Clinical Surgery,</i>	9 a.m., . . .	(see p. 53)	
<i>Chemistry,</i>	10 a.m., . . .	3 3 <sup>1</sup>	} PROF. GEORGE BUCHANAN and PROF. MACEWEN.
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m., . .	10 10	
————— ( <i>Half Session</i> ),	. . .	5 5	} PROF. FERGUSON.
<i>Physics,</i>	2 p.m., . . .	3 3 <sup>1</sup>	
<i>Anatomy, Junior,</i>	1 p.m., . . .	3 3 <sup>1</sup>	} Mr. M. Maclean, Lecturer.
————— <i>Senior,</i>	11 a.m., . . .	3 3 <sup>1</sup>	
<i>Practical Anatomy,</i>	9 a.m. to 4.45 p.m.,	3 3	} PROF. CLELAND and Demonstrators.
<i>Physiology,</i>	12 noon, . . .	3 3 <sup>1</sup>	
<i>Physiological Laboratory,</i>	10 a.m. to 4 p.m., . .	10 10	} PROF. M'KENDRICK and Muirhead Demonstrator.
————— ( <i>Half Session</i> ),	. . .	5 5	
<i>Materia Medica,</i>	1 p.m., . . .	3 3 <sup>1</sup>	PROF. CHARTERIS.
<i>Pathology, Systematic,</i>	3 p.m., Mon., Wed., Fri.,	3 3 <sup>1</sup>	DR. COATS, Lecturer.
<i>Surgery,</i>	12 noon, . . .	3 3 <sup>1</sup>	PROF. MACEWEN.
<i>Midwifery,</i>	2 p.m., . . .	3 3 <sup>1</sup>	PROF. CAMERON.
<i>Practice of Medicine,</i>	11 a.m., . . .	3 3 <sup>1</sup>	PROF. GAIRDNER.

## IV.—LAW.

## TUESDAY, 23RD OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Scots Law,</i>	8 a.m., . . .	£4 4 <sup>1</sup>	PROF. MOODY STUART.
<i>Civil Law,</i>	8 a.m., . . .	4 4 <sup>1</sup>	———, Lecturer.

<sup>1</sup> Fee for a Second or subsequent Session, £2 2s.<sup>2</sup> Fee for a Third or subsequent Session, £2 2s.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Conveyancing,</i> . . . . .	8 a.m., . . . . .	£4 4 <sup>1</sup>	PROF. MOIR.
<i>Constitutional Law and History,</i> . . . . .	5.30 p.m., . . . . .	4 4	} ———, Lecturer.
<i>Half Course,</i> . . . . .	. . . . .	2 2	
<i>Public International Law,</i> . . . . .	5.30 p.m., . . . . .	3 3	} Mr. W. G. Miller.
<i>International Private Law,</i> . . . . .	5.30 p.m., . . . . .	2 2	
<i>Political Economy,</i> 5.30 p.m., Mon., Tu., Wed., Th., . . . . .	. . . . .	3 3	} Dr. Smart, Lecturer.
<i>Half Course,</i> . . . . .	. . . . .	2 2	

## V.—THEOLOGY.

TUESDAY, 30TH OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Divinity, Senior,</i> . . . . .	11 a.m., . . . . .	£3 3	} PROF. DICKSON.
<i>Junior,</i> . . . . .	12 noon, . . . . .	3 3	
<i>Hebrew, Junior,</i> . . . . .	10 a.m., . . . . .	3 3	} PROF. ROBERTSON.
<i>Senior,</i> . . . . .	9 a.m. daily, and 1 p.m., Tu. and Th., . . . . .	3 3	
<i>Private,</i> . . . . .	1 p.m., Mon., Wed., Fri., . . . . .	. . . . .	
<i>Ecdlesiastical History, Junior,</i> . . . . .	11 a.m., . . . . .	3 3	} PROF. STORY.
<i>Senior,</i> . . . . .	12 noon, . . . . .	3 3	
<i>Biblical Criticism,</i> . . . . .	10 a.m., . . . . .	3 3	} PROF. STEWART.
<i>New Testament Greek,</i> . . . . .	9 a.m., Tu., Wed., Th., . . . . .	2 2	

SUMMER SESSION, 1895.

## I.—ARTS.

MONDAY, 22ND APRIL, 1895.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Latin,</i> . . . . .	10 a.m., . . . . .	£2 2	Mr. John Brown, Lecturer.
<i>Greek,</i> . . . . .	11 a.m., . . . . .	2 2	Mr. R. M. Burrows, „
<i>Mathematics,</i> . . . . .	9 a.m., . . . . .	2 2	Mr. G. A. Gibson, „
<i>Physical Laboratory,</i> . . . . .	10 a.m. to 4 p.m., . . . . .	4 4	} PROF. LORD KELVIN.
<i>Practical Chemistry,</i> . . . . .	9 to 11 a.m., . . . . .	3 3 <sup>1</sup>	
<i>Chemical Laboratory,</i> . . . . .	10 a.m. to 4 p.m., . . . . .	5 5	} PROF. FERGUSON.
<i>Practical Zoology,</i> . . . . .	10 a.m. to 1 p.m., . . . . .	3 3	
<i>Botany,</i> . . . . .	8 a.m., . . . . .	3 3	} PROF. BOWER.
<i>Botanical Laboratory,</i> . . . . .	9 a.m. to 4 p.m., . . . . .	3 3	

## II.—SCIENCE.

MONDAY, 22ND APRIL, 1895.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Practical Zoology,</i> . . . . .	10 a.m. to 1 p.m., . . . . .	£3 3 <sup>1</sup>	PROF. YOUNG.
<i>Botany,</i> . . . . .	8 a.m., . . . . .	3 3 <sup>1</sup>	} PROF. BOWER.
<i>Botanical Laboratory,</i> . . . . .	9 a.m. to 4 p.m., . . . . .	3 3	
<i>Physical Laboratory,</i> . . . . .	10 a.m. to 4 p.m., . . . . .	4 4	PROF. LORD KELVIN.
<i>Chemical Laboratory,</i> . . . . .	10 a.m. to 4 p.m., . . . . .	5 5	} PROF. FERGUSON.
<i>Chemistry, Higher,</i> . . . . .	. . . . .	3 3	

1 Fee for a Second or subsequent Session, £2 2s.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Practical Anatomy,</i> . . .	8 a.m. to 3 p.m., . .	2 2	{ PROF. CLELAND and Demonstrators. PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Practical Physiology,</i> . .	12 noon, . . . . .	3 3 <sup>1</sup>	
<i>Physiological Laboratory,</i> .	10 a.m. to 4 p.m., . .	5 5	

### III.—MEDICINE.

MONDAY, 22ND APRIL, 1895.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Botany,</i> . . . . .	8 a.m., . . . . .	£3 3 <sup>1</sup>	} PROF. BOWER.
<i>Botanical Laboratory,</i> . .	9 a.m. to 4 p.m., . .	3 3	
<i>Clinical Medicine,</i> . . . .	9 a.m., . . . . .	(see p. 53)	{ PROF. M'CALL ANDERSON and PROF. GAIRDNER. PROF. GEORGE BUCHANAN and PROF. MACEWEN.
<i>Clinical Surgery,</i> . . . .	9 a.m., . . . . .	(see p. 53)	
<i>Practical Chemistry,</i> . . .	9 to 11 a.m., . . . .	3 3 <sup>1</sup>	} PROF. FERGUSON.
<i>Chemical Laboratory,</i> . . .	10 a.m. to 4 p.m., . .	5 5	
<i>Chemistry, Higher,</i> . . . .	. . . . .	3 3	
<i>Practical Anatomy,</i> . . . .	8 a.m. to 3 p.m., . .	2 2	{ PROF. CLELAND and Demonstrators. Dr. Yule Mackay, Lecturer.
<i>Embryology,</i> . . . . .	11 a.m., . . . . .	2 2	
<i>Practical Anatomy and Embryology,</i> if taken together, . . . . .	. . . . .	3 3	
<i>Practical Zoology,</i> . . . . .	10 a.m. to 1 p.m., . .	3 3 <sup>1</sup>	PROF. YOUNG.
<i>Practical Materia Medica,</i> .	12 noon, . . . . .	3 3 <sup>1</sup>	PROF. CHARTERIS.
<i>Practical Physiology,</i> <sup>2</sup> . . .	12 noon, . . . . .	3 3 <sup>1</sup>	} PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Physiological Laboratory,</i> .	10 a.m. to 4 p.m., . .	5 5	
<i>Practice of Medicine,</i> . . .	1 p.m., Tu. and Th., .	3	
<i>Forensic Medicine,</i> . . . .	11 a.m., . . . . .	3 3 <sup>1</sup>	PROF. SIMPSON.
<i>Practical Pathology,</i> <sup>2</sup> . . .	12 noon, . . . . .	3 3 <sup>1</sup>	PROF. COATS.
<i>Operative Surgery,</i> . . . .	. . . . .	2 2	PROF. MACEWEN.
<i>Diseases of Women,</i> . . . .	2 p.m., Tu., Th., Fri.,	2 2	PROF. CAMERON.
<i>Eye,</i> . . . . .	2 p.m., Tu. and Th., .	3 3	Dr. T. Reid, Lecturer.
<i>Insanity,</i> . . . . .	{ 12 noon, Wed. (University), 3 p.m., Wed., 10 a.m., Sat. (Gartnavel), . . . . }	3 3	Dr. Yellowlees, Lecturer.

### IV.—LAW.

MONDAY, 22ND APRIL, 1895.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Forensic Medicine,</i> . . . .	11 a.m., . . . . .	£3 3	PROF. SIMPSON.
<i>Jurisprudence, General or Comparative,</i>	5.30 p.m., . . . . .	3 3	Mr. W. G. Miller, Lecturer.

<sup>1</sup> Fee for a Second or subsequent Session, £2 2s.

<sup>2</sup> After first Lecture, the Class will meet in three divisions, 8 to 9 a.m., 11 a.m. to 12 noon, and 12 noon to 1 p.m.

<sup>3</sup> Open to all Matriculated Students of the University who have completed their Second Winter of Medical study. This course is supplementary to the Winter course, and takes up special subjects, to be announced in the Summer bills.

In addition to the University Courses, the following Hospitals and Dispensaries afford ample means for Practical Instruction in the various departments of Medicine and Surgery :—

WESTERN INFIRMARY.—This Hospital contains 400 beds for medical and surgical patients, including Wards for Skin Diseases, and one for diseases peculiar to females. *Physicians*—Prof. W. T. Gairdner, M.D., LL.D., F.R.S.; Prof. T. McCall Anderson, M.D.; James Finlayson, M.D.; Gavin P. Tennent, M.D.; Samson Gemmell, M.D. *Physicians for Diseases of Women*—Prof. Murdoch Cameron, M.D.; W. L. Reid, M.D. *Assistant Physicians*—John Alexander, M.D.; William G. Dun, M.D. *Surgeons*—Prof. George Buchanan, M.D., LL.D.; A. Patterson, M.D.; Hector C. Cameron, M.D.; Professor William Macewen, M.D., LL.D. *Honorary Consulting Ophthalmic Surgeon*—T. Reid, M.D. *Assistant Surgeons*—J. C. Renton, M.D.; George T. Beatson, M.D. *Dispensary Physicians*—R. Stevenson Thomson, M.B.; George Dickson, M.D.; C. O. Hawthorne, M.B.; James Hinshelwood, M.D.; John H. Carslaw, M.B. *Extra Dispensary Physicians*—R. M. Buchanan, M.B.; A. W. Russell, M.A., M.D. *Dispensary Physicians for Diseases of Women*—W. L. Reid, M.D.; Robert Kirk, M.D.; Prof. Murdoch Cameron, M.D. *Dispensary Surgeons*—T. K. Dalziel, M.D.; Duncan Macartney, M.B.; James H. Nicoll, M.B. *Extra Dispensary Surgeons*—Andrew Moyes, M.B.; Thomas H. Bryce, M.B. *Dispensary Surgeon for Diseases of the Ear*—Thomas Barr, M.D. *Dispensary Surgeon for Diseases of the Throat*—J. Walker Downie, M.B. *Surgeon Dentist*—W. D. Woodburn, L.D.S. *Pathologist*—Joseph Coats, M.D. *Vaccinator*—William MacLennan, M.B. *Medical Superintendent*—Donald J. Mackintosh, M.B. *Lady Superintendent*—Miss E. Clyde. *Secretary*—Henry Johnston, 125 Buchanan Street. The hour of visit is 9 A.M. The Dispensary for Out-Patients is open daily at 2 P.M. Vaccination—Mondays and Thursdays at 12 noon. The station is recognized by the Local Government Board. Fee, £1 1s. According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

1. That every student paying at the commencement of his First Year a Fee of £10 10s., will be entitled to admission to the Infirmary, and also to attend Courses of Clinical Instruction during the winter and summer of the said year.

2. That every student who has thus paid £10 10s., and shall at the commencement of his Second Year pay a further Fee of £10 10s., will have the privilege of admission to the Infirmary,

and to the several courses of Clinical Instruction during his lifetime.

3. That the Fee for Hospital Attendance and Clinical Instruction for Six Months only be £7 7s.

4. That the Fee for Hospital Attendance and Clinical Instruction for Three Months only be £4 4s.

5. Any student who shall have paid Fees to the amount of £21 or upwards, in the payments as stated above, shall be entitled to a Ticket, admitting him to the Infirmary, and to the Clinical Instruction during his lifetime.

6. There shall be two courses of Clinical Instruction—the one in the Winter, and the other in the Summer session.

Students who have taken the Hospital Ticket previous to 1st October, 1876, will continue at the scale of Fees then in use, but an additional payment of £10 10s. will make them perpetual students of the Hospital, and admit also to the Clinical Classes under the above rules.

Students who have completed their Clinical Course elsewhere shall be permitted to enter for a six months' course of the *Hospital only*, on payment of a Fee of £2 2s.

OUT-DOOR VISITATION.—Senior Students who have passed their Third Professional Examination are permitted to visit the sick poor in the Anderston district, under the supervision of certain Professors of the University and assistants.

ROYAL INFIRMARY.—Hour of Visit—Surgical, 9 A.M. ; Medical, 10 A.M. Clinical Lectures given by the Physicians and Surgeons. Fees for Hospital attendance and Clinical Instruction—same as in the Western Infirmary, excepting fee for six months, which is £6 6s. in the Royal Infirmary.

EYE INFIRMARY, 170 Berkeley Street.—Hour of Visit, 1 P.M. daily. Fee for six months, £2 2s. ; free to those attending, or who have attended, the Lectures on the Eye delivered in the University.

INSANITY.—During the Summer Session Dr. Yellowlees gives in the University a Course of Lectures on Insanity at 12 noon on Wednesdays, and Clinical Instruction at the Glasgow Royal Asylum, Gartnavel, at 3 P.M. on Wednesdays and 10 A.M. on Saturdays. Fee for the combined Course, £3 3s.

There are also Dispensaries for Diseases of the Skin and Ear, and Clinical Instruction in Fevers is given at the Belvidere Hospital.



## FACULTIES IN THE UNIVERSITY.

The whole classes of the University are arranged in five Faculties—Arts, Science, Medicine, Law, and Divinity.

## I.—FACULTY OF ARTS.

The Faculty of Arts comprehends four Departments of study, viz. :—A. *Language and Literature*, embracing the classes of Humanity, Greek, English, French, German, Hebrew and Semitic Languages ; B. *Mental Philosophy*, comprising Logic and Metaphysics, Moral Philosophy, Political Economy, Theory, History, and Art of Education, and Philosophy of Law ; C. *Science*, including Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany, and Geology ; D. *History and Law*, containing Constitutional Law and History, Roman Law, and Public Law.

## A. LANGUAGE AND LITERATURE.

## I. HUMANITY.

The original foundation of this Professorship is not extant ; but it appears from the records of the College that it must have been instituted previous to the year 1637. The Professor is elected by the University Court.

*Professors from the year 1706.*

1706. Andrew Rosse.	1773. Wm. Richardson, M.A.
1735. George Rosse.	1815. Josiah Walker, M.A.
1754. George Muirhead.	1831. William Ramsay, M.A.
1863. GEORGE G. RAMSAY, M.A., LL.D.	

The Humanity Class consists of four divisions—*Junior*, *Middle*, *Senior*, and *Private* or *Honours Class*, which latter Class all members of the ordinary Senior Class have the option of attending. Students not requiring a Public Certificate for the Degree or other purpose may attend as Private Students. Private Students are Students who attend the Class without taking part in the Class work.

In all the Classes the Students prepare certain work prescribed, and are examined orally every day. In the Private or Honours Class the business is conducted largely by Lectures and Prelections delivered by the Professor.

*Junior Class.*

The JUNIOR CLASS meets daily from 8 to 9 A.M. on every week day except Saturday. The subjects of study are : Ovid,



Tibullus, Virgil, Cicero, Livy—Latin Grammar—Prosody—Easy Latin Prose Composition.

*Middle Class.*

The MIDDLE CLASS meets daily from 8 to 9 A.M., and from 11 A.M. to 12. The subjects read are: Ovid, Tibullus, Propertius, Virgil, Horace, Cicero, Livy, together with Latin Prose Composition—Grammar—Prosody—History and Antiquities.

*Students entering the Middle Latin Class must have a good knowledge of Latin Grammar, and be able to translate at sight simple passages from Latin into English, and both simple and compound sentences from English into Latin.* All students desiring to enter the Junior or Middle Latin Class for the first time in November, 1894, will be examined in the above subjects on Tuesday, 23rd October, at 8 A.M., and they will be placed in the Middle or Junior Class, respectively, in accordance with the result of that Examination.

*Senior Class.*

The SENIOR CLASS meets daily from 9 to 10 A.M., and all students attending the Senior Class have the option also of attending the Private or Honours Class from 1 to 2 P.M. The subjects of study in the class at 9 A.M. are:—The works of Horace—Propertius—Virgil—Cicero—Sallust—Livy—Tacitus—Latin Prose Composition—Latin Prosody—Roman History and Antiquities. The students are examined on paper at intervals during the session. Students may enrol in the Senior Class for Latin Prose only, attending once a week, on Wednesdays at 1 P.M.

All students who propose to join the Senior Class are examined on paper, at the commencement of the session, to test their fitness for the Class. The examination for 1894-95 will be held on Tuesday, 23rd October, at 9 A.M. The paper will include (a) *Sentences or passages for translation into Latin.* Students will be examined in Ramsay's Latin Prose Composition, Vol. I. (b) *Translation.* Students who have attended the Junior or Middle Class in their first Session are required to satisfy the Professor, in the examination prescribed above, that they are fit to enter the Class.

*Private or Honours Class, 1 p.m.*

This Class is an Honour or Third-year Class, at which ad-

vanced work is read. All students who attend the 9 A.M. Class attend at 1 P.M. also, unless exempted for special reasons. Students who attend daily at 1 P.M., and do all the work of the Class, may, by special permission, receive tickets qualifying for the M.A. Degree.

One subject is read and lectured upon on Mondays and Fridays; another on Tuesdays and Thursdays; on Wednesdays special classes in Latin prose are held, at which all students of the 9 A.M. Class attend. Students are allowed to attend as Private Students, *i.e.*, as listeners only, without doing any of the work of the Class; but in that case they do not receive tickets qualifying for the Degree.

Students wishing to do Latin Prose, for the Degree or other purposes, may attend one of the special Sections for Latin Prose which meet weekly at 1 P.M. on Wednesdays.

The students are examined orally and on paper at intervals during the Session, both in the subjects read in the Class and on voluntary subjects specially prescribed. A course of five sessions embraces Lectures and Prelections on Plautus—Terence—Lucretius—Catullus—Propertius—Virgil—Persius—Juvenal—Martial—Tacitus.

In all the classes, written exercises in Latin prose are prescribed regularly, and in the Private Class exercises in Latin or English Verse may be prescribed also.

The subjects read in the Session 1894-95 will be as follows:—

1. PRIVATE OR HONOURS CLASS, at 1 P.M.—Catullus; Martial; Horace, *Satires* I.; Virgil, *Æn.* XI.

2. SENIOR CLASS, AT 9 A.M.—Horace, *Odes and Epodes*; Sallust, *Catiline* (Capes); Tacitus, *Annals* IV.; Antiquities and Prosody.

3. MIDDLE CLASS, AT 8 A.M.—Livy XXII. (Capes); Virgil, *Georgic* II. (Sidgwick); Ramsay's Latin Prose Composition.

AT 11 A.M.—Virgil, *Æn.* VI. (Sidgwick); Cicero, *Ad Atticum* IV. (J. Brown); Arnold, *The Second Punic War* (Macmillan).

4. JUNIOR CLASS, AT 8 A.M.—Selections from Ovid (Ramsay); Cicero, *Pro Lege Manilia* (Wilkins); Ramsay's Prose Composition, Vol. I.

## II. GREEK.

This Professorship was founded by the College in or about the year 1581. The Professor is elected by the University Court.

*Professors from the year 1704.*

1704. A. Dunlop, LL.D.	1838. Edmund L. Lushington,
1746. James Moor, LL.D.	LL.D.
1774. John Young, M.A.	1875. R. C. Jebb, D.C.L., Litt. D.,
1821. Sir Daniel K. Sand-	LL.D.
ford, M.A.	
1889. G. G. A. MURRAY, B.A.	

The Greek Class consists of three divisions, the Senior, the Middle, and the Junior. Students not requiring a public Certificate may attend as Private Students, *i.e.*, without doing the work of the class.

In all the Classes a certain piece of work is prescribed every day, and the class examined orally upon it. Besides this, at least twice in the session all the Classes are examined on paper on their whole work.

Students are placed in the several Classes in accordance with the result of an Examination held at the opening of the session. This Examination will be held on Monday, 22nd October, 1894. Accurate knowledge of *Rutherford's Grammar*, *Accidence, Part I.*, and the Elements of Syntax will be required. A piece of unseen translation will also be set.

Exemptions from the above examination:—In the case of students who have already attended a Greek Class in the University, a First, Second, or Third Class Certificate in the Lower Middle, or a First Class Certificate in the Junior, qualifies for the Upper Middle. The Professor will also accept as qualifying for the Upper Middle, a certain standard below the Pass in the University Preliminary Examination.

All students should possess the following books:—*Ancient Atlas* (Justus Perthes' recommended); *Greek Lexicon*, Liddell & Scott (large or intermediate edition—the small edition is not sufficient); *Primer of Greek Literature*, Jebb; *Greek Grammar*, Rutherford, or Sonnenschein. *All students before joining the Class should prepare one of these Grammars to the end of the Verb.*

## JUNIOR CLASS ('TIRONES').

The Junior Class meets at 12 noon every week-day except Saturday.

The Class reads extracts from Xenophon and other Attic writers. There are also written exercises in Greek Composition, and examinations in Grammar.

## MIDDLE CLASS ('PROVECTIONES').

The Middle Class meets at 10 A.M. on every week-day except Saturday.

The Class usually reads the easier Attic authors, including Lucian. Written exercises in Greek Composition form part of the work.

For teaching purposes the Class is divided into two sections, called 'Upper' and 'Lower' Middle respectively.

## SENIOR CLASS.

The Senior Class meets at 8 A.M., and certain members of it at 12 noon, on every week-day except Saturday.

## (1) 8 A.M.

At 8 A.M. the Class reads various Greek authors, and is examined orally every day. Composition is done at this hour.

## (2) 12 NOON ('SENIOR AND PRIVATE').

At 12 noon more advanced work is done: a certain portion of the work bears specially upon the Degree, both for Pass and for Honours. Members of the Senior Class are recommended to attend, but are not in any way bound to do so. Students not requiring a Public Certificate may attend as Private Students, *i.e.*, without doing the work of the Class.

Greek Composition, Prose and Verse, forms part of the work.

There is less oral examination in the teaching of this Class, the Professor generally giving lectures or prelections.

N.B.—*The hour of meeting of this Class has been provisionally changed from 2 p.m. to 12 noon.*

*Subjects for Session 1894-95.*

JUNIOR CLASS.—Rutherford's *Greek Grammar*; Sidgwick's *First Greek Writer*; Farnell's *Tales from Herodotus*; *Scenes from Aristophanes' Frogs* (Sidgwick).

LOWER MIDDLE CLASS.—*Scenes from Aristophanes' Frogs* (Sidgwick); Plato, *Crito* (Stock); Sidgwick's *First Greek Writer*.

UPPER MIDDLE CLASS.—*Selections from the Attic Orators* (Jebb); Aeschylus, *Prometheus* (Glazebrook); Plato, *Crito* (Stock); Composition and Translation at Sight.

SENIOR CLASS.—Sophocles, *Ajax*; Thucydides VII.; Homer, *Iliad XVI.*; Composition and Translation at Sight; Sidgwick's *Greek Prose*; Oman's *History of Greece*.

SENIOR AND PRIVATE CLASS.—Euripides, *Hippolytus*; Lectures on Homer, with especial reference to *Iliad XVI.*; Prose and Verse Composition. Lectures by Mr. Macdonald on the Historical Geography of Greece; Lectures by Mr. Burrows on Greek Syntax.

N.B.—When a student is prevented from attending at 8 a.m. he may obtain a Senior Certificate by attending at 12 noon, provided that he passes both the written examinations.

### III. ENGLISH LANGUAGE AND LITERATURE.

This Chair was founded by ordinance of the Universities Commissioners (1858) of date 25th November, 1861, and is in the gift of the Crown.

#### *Professors.*

1862. John Nichol, LL.D.

1889. ANDREW CECIL BRADLEY, M.A.

N.B.—Students will find it much to their advantage to take the English Literature Class, as has hitherto been the custom, in the later part of their Course.

The subjects of the Ordinary Degree Examinations in October, 1894, and in April and October, 1895, will be found on p. 144. It is necessary for students who enter for these examinations in a session later than that in which they attended the Class, to pay special attention to the information there given.

The Class meets daily, except on Saturday, at 4.30 p.m.

Public students are examined orally. They are also required to pass written examinations, and to hand in exercises on subjects set from time to time.

The work of the Class will comprise the following subjects:—

1. English Composition. Text-books: Nichol's *Composition Primer*, and Nichol and M'Cormick's *Questions and Exercises on English Composition*.

2. The Outlines of English Philology.

3. The History of English Poetry from Cowper to Keats.  
Text-book : Ward's English Poets, vol. iv.

4. (a) Shakespeare's *Hamlet* (Clarendon Press Edition).

(b) *Eighteenth Century Essays*, selected by Austin Dobson.  
This book is published in Kegan Paul's 'Parchment Library,'  
and also in a cheaper form.

HONOURS CLASS.—As the appointment of a Professor of History will make it possible to institute examinations for the Degree of Master of Arts with Honours in English (see p. 136), an advanced class in English Literature will be formed, and Mr. Bradley will lecture on some of the subjects specified on p. 144, and numbered (2) and (4). This Class will meet on Monday, Wednesday, and Friday, at 2.30 p.m.

#### IV. HEBREW AND SEMITIC LANGUAGES.

(See under Faculty of Theology, p. 100.)

### B. MENTAL PHILOSOPHY.

#### I. LOGIC AND RHETORIC.

This Professorship is one of those founded in the charter of *Nova Erectio*, in 1577. The Professor is elected by the University Court.

*Professors from the year 1727.*

1727. John Loudon.

1751. Adam Smith, LL.D.		1787 <sup>1</sup> . George Jardine, M.A.
1752. James Clow.		1827 <sup>2</sup> . Robert Buchanan, LL.D.
1864. JOHN VEITCH, LL.D.		

This Class meets daily, on five days of the week, from 9 to 10 A.M. for Lecture, and on Friday, from 11 to 12 noon, for Oral Examination.

The Course of Lectures is so arranged as to embrace the following subjects in each session :—

I. PSYCHOLOGY AND METAPHYSICS—under which is given an account of the Faculties and Capacities of the Mind, and of the General Nature, Limits and Objects of Human Knowledge.

<sup>1</sup> Mr. Jardine was assistant and successor to Mr. Clow from 2nd June, 1774.

<sup>2</sup> Mr. Buchanan was assistant and successor to Mr. Jardine from 1st October, 1824.

II. LOGIC.—(A) Pure or Formal Logic, embracing the Doctrine of Notions (Terms), Propositions, Reasonings, Fallacies. (B) Applied or Material Logic, embracing the Theory and Processes of Science (Observation, Induction, Deduction), and the General Laws of Evidence. Instruction in Logic is conveyed partly by means of a text-book, viz., *Institutes of Logic*.

III. RHETORIC.—A portion of the course is devoted to the Principles of Rhetorical and Oratorical Excellence.

Exercises and Essays on subjects connected with the course are prescribed to the students; and General Written Examinations take place at regular intervals during the currency of the session.

The Class is annually arranged into two divisions, Senior and Junior, according to the age of the students; and prizes are assigned, in each of the divisions, to those who have most distinguished themselves by diligence, proficiency, and ability in the exercises and examinations of the session.

An advanced Class for the HIGHER METAPHYSICS—embracing the subjects prescribed for Honours in Mental Philosophy, will meet three times a week, on Mondays, Tuesdays, and Thursdays, from 1 to 2 P.M.

The course of Lectures on Greek Philosophy given last session will be extended so as to embrace the periods of the Sophists, Socrates and Plato.

## II. MORAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio*, in 1577. The Professor is elected by the University Court.

### *Professors from the year 1727.*

1727. Gerschom Carmichael.	1796 <sup>1</sup> . Archd. Arthur, M.A.
1730. F. Hutcheson, LL.D.	1797. James Mylne, M.A.
1746. Thomas Craigie.	1839. William Fleming, D.D.
1752. Adam Smith, LL.D.	1866. Edward Caird, D.C.L.,
1764. Thomas Reid, D.D.	LL.D.

1894 ———

The Moral Philosophy Class meets at 8 A.M. on five days of the week, and the more advanced class, which is intended mainly to prepare students for the Degree with Honours, on Monday, Wednesday, and Friday, at 2 P.M.

<sup>1</sup> Mr. Arthur was assistant and successor to Dr. Reid from 22nd May, 1780.



In the Lectures, Moral Philosophy is treated both historically and systematically. One of the most important works on Moral Philosophy is usually selected in each year as the text-book (the work selected to be announced at the beginning of the session); and in connection with it Lectures will be given on Metaphysics and Psychology as the basis of morals, on the principles of Jurisprudence and Social Ethics, and on the relations of Ethics to Theology. An account will also be given of the historical development of Morals, and of the main ancient and modern theories of ethical and social subjects.

In the Higher Moral Philosophy Class the Professor will lecture on the subjects for the Degree with Honours.

### III. POLITICAL ECONOMY.

This subject was attached to the Chair of Moral Philosophy till 1892, when a separate lectureship was instituted by the University.

*Lecturer.*

1892. WILLIAM SMART, M.A., LL.D.

The Political Economy Class meets at 5.30 p.m. on Mondays, Tuesdays, Wednesdays, and Thursdays, beginning 22nd Oct.

The lectures, which are partly doctrinal, partly historical, cover the general principles of Economics, and embrace such subjects as the following:—*Production*.—The Factors; Land, Labour, Capital: their Relations in the Organization of Industry. *Exchange*.—The Theory of Value: Money, Credit, Banking; International Trade. *Distribution*.—The Theories of Rent, Profit, Interest. Wages. *Consumption*.—Income, Expenditure, Saving, Destruction; Effects on Production and Distribution. *Public Finance*.—Poor Laws, National Debts, Taxation. *Modern Problems*.—Protection, Trade Unions, the Unemployed, Bimetallism, Socialism.

The lectures are intended to accompany the study of prescribed books. The text-book for the year is Gide's *Political Economy*, supplemented by Marshall's *Elements of Economics*. To meet the requirements of the Ordinances for Degrees in Law and in Arts, the first fifty lectures (or the last fifty lectures in the case of those who have taken Political Economy in a previous session) will count as a half-course.

*Preparatory Reading.*—Students are recommended to read the first nine chapters of Adam Smith's *Wealth of Nations*, on which an examination, for a special prize, will be set during the first week of the session.

#### IV. EDUCATION.

##### THEORY, ART, AND HISTORY OF EDUCATION.

This Lectureship was instituted by the University in 1894.

##### *Lecturer.*

1894. DAVID ROSS, M.A., B.Sc., LL.D.

The Education Class meets daily at 3 p.m. The course consists of one hundred lectures qualifying for Graduation.

A. THEORY OF EDUCATION.—End and aim of Education. Order and mode of development of the mental faculties. Adaptation of the curriculum to growing capacity. The training of the senses. The laws of association and memory as related to education. Cultivation of the imagination. Development of the will. Formation of habit and character. Authority and discipline. Emulation, praise, blame, rewards, punishment: their aims and methods.

Considerations determining the curriculum. Bifurcation into classical and modern sides. The manual and the technical in instruction.

B. EDUCATION AS AN ART.—General rules of method as deduced from theory. Modifications and limitations in practice. Correlation of studies. Oral teaching, text-books, note-books. The art of questioning. Model and criticism lessons. Infant and Kindergarten teaching. Object lessons. Detailed exposition of method as applied to the various subjects of the school curriculum. Special cases, the deaf, dumb, and blind.

School organization. The structure and equipment of school rooms. Sanitation and school hygiene, physical exercises, drill, recreation. Books and apparatus. Classification, time-tables, registration of attendance and results.

C. HISTORY OF EDUCATION.—Systems of education now or formerly in vogue. The lives and work of eminent teachers. The theories of leading writers on Education.

Special periods will be dealt with from year to year. In 1894-95 the special subjects will be: (1) The Revival of Learning, Rabelais, Erasmus, Luther, Sturm, The Jesuits,

Ascham. (2) Modern Primary Education, Bell, Lancaster, Pestalozzi, Froebel, Jacotot, Stow.

In April and October, 1895, the subjects of examination for the Degree of M.A. will be those set forth in the preceding paragraphs, and also Ascham's *Scholemaster* and Stow's *Training System*.

## V. PHILOSOPHY OF LAW.

(See under Faculty of Law, p. 95).

## C. SCIENCE.

### I. MATHEMATICS.

This Professorship, long suppressed for want of funds, was revived by an Act of Faculty in 1691. The Professor is appointed by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

*Professors from the year 1691.*

1691. George Sinclair.

1699. Robert Sinclair, M.D.	1796 <sup>1</sup> . James Millar, M.A.
1711. Robert Simson, M.D.	1832. James Thomson, LL.D.
1761. James Williamson, D.D.	1849. Hugh Blackburn, LL.D.
1879. WILLIAM JACK, LL.D.	

*First Class.*

Subjects: *Euclid* and *Algebra*, both from the beginning, and *Trigonometry* of right-angled triangles. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 10 to 11.

*Second Class.*

For Students who have attended the first year's course, or who have otherwise acquired a knowledge of *Euclid*, Books I., II., III., IV., and of *Algebra*, as represented by the first twenty-two Chapters (Chaps. XIV., XV., XIX. excepted) of Todhunter's larger text-book. Subjects: *Euclid*, Books V., VI., and XI. 1—21, more advanced *Algebra*, and the elements of transversals and of *Geometrical Conics*, *Trigonometry*, including solution of triangles. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 12 to 1.

<sup>1</sup> Mr. Millar was assistant and successor to Dr. Williamson from 26th Feb., 1789.

*Intermediate Honours Class.*

Subjects: *Plane Trigonometry, Analytical Conics, Differential and Elements of Integral Calculus.* The Class meets from 10 to 11 daily, except on Saturdays.

*Advanced Honours Class.*

Subjects: *Integral Calculus, Spherical Trigonometry, Geometry of Three Dimensions, Differential Equations, Finite Differences.* The Class meets at 11-12 on Mondays, Wednesdays, and Fridays.

Attendance on the Mathematical Classes, for not less than two Winter Sessions, one of which must be on either the Second or the Intermediate Honours Class, is required for the degree of M.A., in the case of students who began their course before 1st Oct., 1892, "unless the candidate at the time of his entrance to the University shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the Senior Class," in which case attendance on that Class for one session is sufficient.

For the "Lorimer," the "Metcalf," and the "Muir" Bursaries in Mathematics, see under Bursaries; and for the Cunningham Gold Medal, see under Prizes.

## II. NATURAL PHILOSOPHY.

This Professorship was founded by the Charter of *Nova Erectio* in 1577; and the Professor was confined to the department of Natural Philosophy in 1727. The Professor is elected by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

*Professors from the year 1727.*

1727. Robert Dick.

1751. Robert Dick, M.D.		1796. James Brown, LL.D.
1757. John Anderson, M.A.		1803. W. Meikleham, LL.D.
1846. LORD KELVIN, D.C.L., LL.D., P.R.S.		

The Natural Philosophy Class meets daily at 9 A.M. The hour is chiefly spent in statements of Principles, descriptions of Results of Observation, and experimental Illustrations.

The main divisions of the course are—(1) Abstract Dynamics; (2) Properties of Matter; (3) Sound, Light, Heat, Magnetism and Electricity.

A programme of the subjects which will be taken up, as far as time permits, during the Session 1894-95, will be published before the commencement of the Session, and may be had on application at the Natural Philosophy Class-room.

The Higher Course, which meets at 12 noon daily, is devoted to Mathematical Demonstrations and Exercises in Kinetics and Statics, and to a course on some special subject of Mathematical Physics.

The text-books used are—

“A Treatise on Natural Philosophy,” by Professors Sir William Thomson and P. G. Tait (Cambridge University Press); “Elements of Natural Philosophy,” by the same authors (Cambridge University Press); “Dynamics and Hydrostatics,” by J. T. Bottomley (W. Collins & Sons); “Heat” and “Elasticity,” vol. iii. of Sir W. Thomson’s “Mathematical and Physical Papers” (Cambridge University Press); Deschanel’s “Experimental Physics,” translated by Everett; “Absolute Measurements in Electricity and Magnetism,” by A. Gray (Macmillan & Co.); “Mathematical Tables,” by J. T. Bottomley (Macmillan & Co.); “Exercises in Natural Philosophy,” by M. Maclean (James MacLehose & Sons).

The more elementary of the treatises by Thomson and Tait, along with Dynamics and Hydrostatics by Bottomley, will be used for the work required of all students of Natural Philosophy in the regular curriculum. The whole, or certain specified parts of the larger treatise, will be prescribed in connection with voluntary examinations and exercises in the class, and for candidates for the degree of M.A. with honours. Students who desire to undertake these higher parts of the business of the Class ought to be well prepared on all the subjects of the Intermediate Honours Mathematical Class.

The Laboratory in connection with the Class is open daily from 10 A.M. to 4 P.M. for Experimental Exercises and Investigations, under the direction of the Professor and his official Assistant, and the Demonstrator in Experimental Physics.

For the Arnott and Thomson Demonstratorship in Experimental Physics, see p. 103.

### III. ASTRONOMY.

(See under Faculty of Science, page 69.)

## IV. CHEMISTRY.

(See under Faculty of Medicine, page 80.)

## V. ZOOLOGY.

(See Natural History, under Faculty of Medicine, page 78.)

## VI. BOTANY.

(See under Faculty of Medicine, page 82.)

## VII. GEOLOGY.

(See Natural History, under Faculty of Medicine, page 78.)

## D. HISTORY AND LAW.

## I. HISTORY.

This Chair was founded by Ordinance No. 28 of the Universities Commissioners (1889) of date 5th June, 1893. The Professor is appointed by the University Court.

*Professor.*

1894. ———

## II. CONSTITUTIONAL LAW AND HISTORY.

(See under Faculty of Law, page 96.)

## III. ROMAN LAW.

(See under Faculty of Law, page 95.)

## IV. PUBLIC LAW.

(See under Faculty of Law, page 95.)

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## II.—FACULTY OF SCIENCE.

The Faculty of Science was instituted by Ordinance No. 31 of the Universities Commissioners (1889) of date 5th June, 1893, and embraces the classes of Mathematics, Natural Philosophy, Astronomy, Chemistry, Natural History (including Geology and Zoology), Botany, Anatomy, Physiology, Civil Engineering and Mechanics, and Naval Architecture.

## I. MATHEMATICS.

(See under Faculty of Arts, page 65.)

## II. NATURAL PHILOSOPHY.

(See under Faculty of Arts, page 66.)

## III. ASTRONOMY.

The Professorship of Practical Astronomy was founded in the year 1760, conjointly with the office of Observer in the University of Glasgow, and is in the gift of the Crown. By Ordinance No. 31 of the Universities Commissioners (1889) of date 5th June, 1893, it is now called Astronomy, and the Professor is a member of the Faculty of Science, the Chair having been transferred by the Universities' Commissioners in 1893 from the Faculty of Arts to the newly instituted Faculty of Science.

*Professors.*

1760. Alex. Wilson, LL.D.	1803. James Cooper, D.D.
1784 <sup>1</sup> . Patrick Wilson, LL.D.	1836. John P. Nichol, LL.D.
1799. W. Meikleham, LL.D.	1859. R. Grant, LL.D., F.R.S.
1893. LUDWIG BECKER, Ph.D., F.R.A.S.	

An Observatory has always existed in connection with this Chair. The present Observatory is situated on an eminence in the immediate vicinity of the University buildings. The principal instruments are :—A Meridian Circle of six inches aperture, by Ertel of Munich; an equatorially-mounted Refractor, of twenty inches aperture, and fifteen feet focal length, by Grubb of Dublin; and an equatorially-mounted Refractor, of nine inches aperture, and thirteen feet focal length, by Cooke of York.

Dr. Wilson, the second occupant of the Chair, bequeathed to the University the sum of one thousand pounds, upon the condition that the interest thereof should be applied to the purchase of instruments and books for the use of the Professor of Astronomy and the students attending his prelections.

The Professor of Astronomy is chiefly occupied in directing the operations of the Observatory; but he also delivers a Course of Lectures on Astronomy at the University during the session, and gives expositions on instruments and methods of observation at the Observatory.

*First Class.*

Subjects: Elementary Mathematical Astronomy—The celestial sphere and its system of co-ordinates, description and theory of instruments, the earth and phenomena depending on change of position on the earth, units of time and calendar,

<sup>1</sup> Dr. P. Wilson was assistant to his father from 5th June, 1782.



Kepler's laws and their consequences, application of the law of gravitation, apparent motion of the planets, aberration, parallax, lunar and planetary perturbations, precession and nutation.

The Class meets at 3 p.m. on Mondays, Wednesdays, and every second week on Fridays. Practical Demonstrations at the Observatory.

Books—Barlow and Bryan, *Elementary Mathematical Astronomy* (Univ. Corr. Coll. Tutorial Series, London); Sir John Herschel, *Treatise on Astronomy*; or Young, *Text Book of General Astronomy*.

### *Second Class.*

Subjects: Spherical Astronomy—Effect of precession, nutation, aberration, parallax on celestial co-ordinates, occultations, theory of interpolation and of mechanical quadrature, elements of theoretical astronomy.

The Class meets at 3 p.m. on Tuesdays and Thursdays, and every second week on Fridays. An instrument will be set aside at the Observatory for the use of students, and instruction in observing will be given.

It is desirable that the students master chap. I., II., and IV. of Todhunter's *Spherical Trigonometry* (London, Macmillan & Co.), and are well acquainted with the fundamental formulæ of Plane Trigonometry.

Books as above and Brannow's *Spherical Astronomy*.

The first class counts as a half course for the Degree of M.A.; the two classes together, which may be taken in one session, are a full course for the Degree of B.Sc. Some lectures on Geodesy will be specially arranged for students preparing for B.Sc. in Engineering Science.

The Professor will be willing to give (without fee) special advanced instruction on two days a week to students who are desirous of learning the determination of orbits of comets and planets.

### IV. CHEMISTRY.

(See under Faculty of Medicine, page 80.)

### V. NATURAL HISTORY.

(See under Faculty of Medicine, page 78.)

### VI. BOTANY.

(See under Faculty of Medicine, page 82.)

## VII. ANATOMY.

(See under Faculty of Medicine, page 77.)

## VIII. PHYSIOLOGY.

(See under Faculty of Medicine, page 84.)

## IX. CIVIL ENGINEERING AND MECHANICS.

The Professorship of Civil Engineering and Mechanics was instituted by Queen Victoria in 1840, and is in the gift of the Crown. The emoluments of the Chair were increased in 1872 by a supplemental endowment<sup>1</sup> by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow; and more recently, in 1876, an Assistantship was founded by bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow.<sup>2</sup>

*Professors.*

- 1840. Lewis D. B. Gordon, C.E.
- 1855. William J. Macquorn Rankine, C.E., LL.D.
- 1873. James Thomson, C.E., LL.D., D.Sc., F.R.S.
- 1889. ARCHIBALD BARR, D.Sc., M.Inst.C.E.

The Courses of the Professor of Engineering extend throughout the winter session, that is from 22nd October till 22nd March. They comprise Lectures on Engineering Principles and Practice, Instruction in Geometrical Drawing and in Engineering Drawing and Calculations, and visits to Engineering Works and Manufactories.

These Courses are designed primarily to suit students who intend to devote themselves to Civil, Mechanical, Electrical, or Mining Engineering; but the work of the Classes will be found of direct practical utility to architects and to men who are engaged in any occupations connected with manufactures.

The work of the Classes is not intended in any way to supersede the usual requirements of pupilage or apprenticeship in Engineering, but to enable the Engineer to gain such a knowledge of the principles underlying his profession or trade as he cannot acquire by only working in the office, in the field, or in the workshop. The Classes may be attended either before or after pupilage or apprenticeship, or concurrently therewith.

Four Courses of Lectures are arranged for, three of which will be delivered in each session.

<sup>1</sup> The annual income of a sum of £5000.

<sup>2</sup> The salary for the Young Assistantship thus founded is £140, or thereby.

To suit the convenience of men engaged in offices and works, two of the Classes will be held at 8 A.M., and the advanced course will be held at 9 A.M.

**CLASS I.—THE MATERIALS OF CONSTRUCTION AND THE ELEMENTS OF APPLIED MECHANICS.**—Mondays, Wednesdays, and Fridays, at 8 A.M.—The Lectures will treat of the Origin, Preparation, Properties and Uses of the Chief Constructive Materials, especially of Cast Iron, Wrought Iron and Steel, Brass and other Alloys, Timber, Building Stones, Cements and Concrete; and of Methods of Calculation and the more Elementary Principles of Mechanics in their application to problems connected with Engineering Structures and Machines.

**CLASS II.—SURVEYING, LEVELLING, AND SETTING-OUT OF WORKS.**—Tuesdays, Thursdays, and Saturdays, at 8 A.M.—Surveying with the Chain and with Angular Instruments; Telemetry; Levelling; the Optical and Mechanical Principles, Tests, and Adjustments of Surveying and Levelling Instruments; Setting out of Works, especially Setting-out of Railways; Mensuration of Areas of Land and of Volumes in Earth works; the Execution of Civil Engineering Works. The Lectures will treat for the most part of those portions of the subject which are not readily learned in ordinary field and office practice.

**CLASS III.—PRIME MOVERS AND THE MECHANICS OF MACHINERY.**—This Class will not be held during the present session. It will be held in alternate years with Class II., on Tuesdays, Thursdays, and Saturdays, at 8 A.M. The Lectures treat of the Theory of Steam and Gas Engines, the structural details of Boilers and Engines, the Mechanics of Machinery, the Elements of Machine Design, the Transmission of Power, and Friction and Lubrication in Machines. Attendance on this Class should be preceded by attendance on Class I. in the case of students entering with no knowledge of Mechanics.

**CLASS IV.—HIGHER APPLIED MECHANICS AND HYDRAULICS.**—Daily, except Saturday, at 9 A.M. The Lectures treat of the Strength and Elasticity of Materials, the Strength and Stiffness of Beams, Girders, Columns, Framed Structures, Shafts, &c.; Hydraulics and Hydraulic Appliances, including the Gauging of Water, the Flow of Water in Pipes, and the Principles of Water Wheels, Turbines, and Centrifugal Pumps.

**ENGINEERING DRAWING AND CALCULATIONS.**—The drawing

class room is open daily, except Saturday, from 9 A.M. till 5 P.M. Each student will be required to attend six hours per week (at times to be arranged at the commencement of the session), and will be expected to devote extra time to the performance of work. The work of the Classes will comprise Lectures and Practice in Civil and Mechanical Engineering Drawing, Descriptive Geometry, and Graphical Statics, and the performance of graphical work and calculations in connection with the lecture courses.

*Recommendation.*—It is strongly recommended that students of Engineering should, if possible, get themselves engaged, for two or three summers within the period of their attendance in the University, in engineering or architectural service, in offices, or in workshops, or on works such as railways, water works, or harbour works in progress.

*As to the Degrees of B.Sc. and D.Sc. in Engineering Science, see Index.*

*As to the Certificate of Proficiency in Engineering Science, see Index.*

*As to the Muir Bursaries, the Metcalfe Bursaries, the Walker Prizes and the George Harvey Prize, in the Department of Civil Engineering and Mechanics, see Index.*

## N. NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

The John Elder Chair of Naval Architecture was founded by the University in 1883. An endowment of £12,500 was provided by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow. The Professor is appointed by the University Court.

### *Professors.*

1883. Francis Elgar, LL.D. | 1886. Philip Jenkins.

1891. JOHN HARVARD BILES.

The Courses of the Professor comprise a Junior Course of Lectures and Examinations upon Naval Architecture and Marine Engine and Boiler Design, and a Senior Course of Lectures and Examinations upon Naval Architecture and Marine Engine Design; also a Junior and a Senior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design. The Junior Course of Lectures and Examinations may be taken in either the first or the

second year of the regular curriculum, and the classes will meet on Mondays, Wednesdays, and Fridays at 11 A.M. The Classes of the Senior Course will be held on Mondays, Tuesdays, and Thursdays from 11 A.M. to 12 noon, or at any other hour that may be found convenient.

The Junior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design is expected to be taken by students in the first year of the regular curriculum; and the classes will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M. The classes of the Senior Course will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M., or at any other hour that may be found convenient.

*As to the Degree of B.Sc. on the side of Naval Architecture and Marine Engineering, see Index.*

*As to the Lloyd's Register Scholarship, the Elder Bursaries, the Shipwrights' Company's Prize, and the Kirk Memorial Prize, see Index.*

### III.—FACULTY OF MEDICINE.

The Faculty of Medicine embraces the Classes of Practice of Medicine, Anatomy, Natural History, Surgery, Midwifery, Chemistry, Botany, Materia Medica, Physiology, Forensic Medicine, Clinical Surgery, Clinical Medicine, Pathology, Insanity, and Physics, on all of which attendance is required for the Degree of M.B. To this Faculty also belong the Lectureships on Diseases of the Eye and Embryology, and the Courses of instruction necessary for the Diploma in Public Health.

#### PRACTICE OF MEDICINE.

This Professorship, created in 1637, but long suppressed for want of revenue, was revived by the College in 1712, and endowed by Queen Anne in the following year. It is in the gift of the Crown.

#### Professors.

1714. John Johnstoun, M.D.	1789. Thomas C. Hope, M.D.
1751. William Cullen, M.D.	1796. Robert Freer, M.D.
1756. Robert Hamilton, M.D.	1827. Charles Badham, M.D.
1757. Joseph Black, M.D.	1841. William Thomson, M.D.
1766. Alex. Stevenson, M.D.	1852. John McFarlane, M.D.
1862. WILLIAM TENNANT GAIRDNER, M.D., LL.D., F.R.S.	

The course is directed to the exposition of the Healing Art in its more practical aspects, having regard to the immensely wide range of diseases usually assigned to the physician and the general practitioner, as opposed to the surgeon and the specialist. The general principles and doctrines which are available at the bedside of the sick are each year carefully and thoroughly considered in connection with such a number and variety of illustrative instances as may be expected to leave a lasting and vivid impression of the essentials of Diagnosis, Prognosis, and Treatment, in so far as these can be advantageously delivered in the form of lectures guided by a systematic plan, conveying not only the opinions of the professor, but also references to the general history of opinion, and the steps by which the existing knowledge of disease has been built up. Thus, a broad and sufficient basis is obtained for conveying an insight into what may now be regarded as settled medical doctrine, and also, as regards points which cannot be so considered, suggestions as to the direction in which we may reasonably look for guidance in the future. But no attempt is made to give a complete synopsis annually of the details of practice in all departments; for this, the student is of necessity referred to one or other of the current text-books. In 1894-95, the first part of the course will be occupied with the leading, and mostly the chronic Constitutional Diseases—*e.g.*, Atrophy, Anaemia, Scurvy, Gout, Rheumatism, etc.; Tubercle and Syphilis will also be discussed, and, in connection with the latter, certain Diseases of the Skin. In the early part of the course, up to Christmas, instruction will be given, partly in lectures and partly in the tutorial classes, on the elements of Physical Diagnosis, *i.e.*, Auscultation and Percussion, etc., with reference chiefly to Chest Diseases, so as to constitute a preparation for hospital and dispensary work. Diseases of the Respiratory Organs will next engage attention, and therewith the more ordinary forms of tubercular disease, Phthisis pulmonalis, etc.; after this, certain Diseases of the Nervous System will be discussed. Professor Gairdner has been in the habit of giving two lectures a week in summer in order to overtake subjects left out of the winter course, attendance on these lectures being voluntary, and without additional fee. In the summer of 1894 this course will be upon Diseases of the Liver and Kidneys (excluding many of the details of examination of the Urine, as taught regularly in clinical courses); including, however, the subjects



of Diabetes and Uraemia. The subjects treated of in summer will form part of the tutorial work of next winter. The course will be illustrated by diagrams and tables, hand-coloured drawings and photographs, etc., wax casts, models, and preparations of morbid Anatomy; and, while Clinical Instruction, as given in the Western Infirmary, will necessarily and properly be kept entirely distinct from systematic, incidental reference will sometimes be made to cases under treatment as illustrating details or principles which it is desirable so to bring home to the student. Professor Gairdner conducts at the Western Infirmary, both in winter and in summer, part of the regular Clinical Instruction given to the Medical Students of the University; and he holds that such instruction (whether given by him or by others) is the only form of "laboratory" or "practical" instruction which has any relation to a course of Practice of Medicine. Tutorial Instruction, however, on the basis of the lectures, and by examination *viva voce*, will be given to the class in sections, at separate hours adjusted to the convenience of students, one hour a week being assigned to each section. Three written examinations are held in the course of the winter session, in December, February, and March respectively; and the medals and certificates of distinction are determined upon the basis of these Examinations, for which the tutorial classes are considered as a preparation. The meetings of the whole class (including the written examinations) will amount to about 100 during the winter session.

A portrait-medal of Professor Gairdner is awarded to the most distinguished student in the class of Practice of Medicine. The dies for this medal were presented to the University along with a Portrait of Dr. Gairdner by his former students, on 28th January, 1893.

*Text-Books.*—Those most generally used in the Class are:—Bristowe's *Theory and Practice of Medicine*, last edition; Finlayson's *Clinical Manual for diagnosis and hospital work* (third edition, 1891); Frederick Taylor's *Manual of the Practice of Medicine* (1893); Yeo's *Manual of Medical Treatment or Clinical Therapeutics* (2 vols., 1893); Whitla's *Dictionary of Treatment* (1892). The following well-known systematic treatises, however, are also recommended, and may be used by those who prefer them, viz.:—The recently published *Principles and Practice of Medicine*, by the late Dr. Pagge (London, third edition, 1891); Frederick Roberts, Osler



Strümpell (also translated in America, but published in London, 1893); Pepper's *American Text-book of the Theory and Practice of Medicine*, 1893. Graham Brown's, also Fenwick's *Treatises on Medical Diagnosis*, and Gee on *Auscultation and Percussion*, are smaller and more special works, which will be found very serviceable. Another excellent text-book on Physical Diagnosis is that of Drs. Gibson and Russell, of Edinburgh. The well-known dictionaries of Quain and Fowler, with the older one of Reynolds, and the immense Cyclopædia in sixteen volumes (together with Index Vol. and Supplement), edited by Ziemssen (translation 1875-81), though not at all suitable as text-books, may be referred to on particular topics, and are accessible in the Library. The Professor's *Clinical Medicine* (1862) is out of print, but will be found in the Reading-Room, and may be used for occasional reference.

### ANATOMY.

This Professorship, with which Botany was at first associated, was founded in 1718 by the Crown and College jointly. A separate Professorship of Botany was established in 1818, a distinct lectureship on that branch having existed for a considerable time previously.

#### *Professors.*

1720. Thomas Brisbane, M.D.	1781. William Hamilton, M.D.
1742. Robert Hamilton, M.D.	1790. James Jeffray, M.D.
1756. Joseph Black, M.D.	1848. Allen Thomson, M.D.,
1757. Thos. Hamilton, M.D.	LL.D., F.R.S.
1877. JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S.	

#### *Demonstrators:*

John Yule MacKay, M.D. | John J. Urwin, M.B., C.M.  
Archibald A. Warden, M.A., M.B., C.M.

In the WINTER SESSION, Anatomical Instruction is conducted in the following courses, viz.:—

1. **ELEMENTARY DESCRIPTIVE LECTURES.**—This Class meets on five days weekly, from 1 to 2 o'clock. The lectures comprehend a full systematic description of the Bones, Joints, Muscles, and Muscular Organs, and a general view of the Nervous System, and Viscera.

2. **ADVANCED DESCRIPTIVE LECTURES AND DEMONSTRATIONS.**—This Class meets on six days weekly, from 11 to 12 o'clock. viz., on five days for lecture, and on Saturday for Microscopical Demonstrations. The course comprehends: 1st, Demonstra-

tions of Regional or Topographical Anatomy, including the Distribution and Relations of the Blood-Vessels and Nerves; 2nd, Histology and a Detailed Description of the Viscera, Brain, and Organs of Sense.

3. PRACTICAL ANATOMY, or DISSECTIONS made by the students, under the superintendence of the Professor and Demonstrators. The rooms are open from 9 A.M. to 4.45 P.M. daily, except on Saturdays when they close at mid-day.

*Text-Books*—Quain's or Gray's *Anatomy*; Cleland's *Directory for Dissection*.

In the SUMMER SESSION, the rooms for Practical Anatomy are open from 8 A.M. to 3 P.M. daily. Demonstrations on Surgical and Topographical Anatomy, as well as lectures on special departments of Anatomy, are delivered regularly, and are free to members of the Practical Class.

### NATURAL HISTORY.

This Professorship was founded by George III., in 1807. The Professor is appointed by the Crown. In 1876 Mrs. Honyman Gillespie of Torbanehill endowed a Lectureship in Geology, to be called the "Honyman Gillespie Lectureship," in memory of her husband, W. Honyman Gillespie, Esq. The Professor of Natural History is the present Lecturer.

#### *Professors.*

1807. Lockhart Muirhead, LL.D.

1829. William Couper, M.D. | 1857. Henry D. Rogers, LL.D.

1866. JOHN YOUNG, M.D.

*Honyman Gillespie Lecturer*—1876. JOHN YOUNG, M.D.

The arrangements for the ensuing year are as follows:—

1. A course of Lectures on Zoology, daily at 9 A.M., beginning in October.

2. A course of Lectures on Geology, daily at 5.30 P.M., beginning in January.

3. Demonstrations in Geology will be given by the William Baxter Demonstrator, at times to be hereafter announced.

4. A course of Laboratory Demonstrations and Lectures for senior students will be given in Summer. Laboratory hours 10 A.M. till 1 P.M.; lectures twice weekly at 12 noon.

Practical Instruction in Zoology will be given in the Zoological Laboratory during the summer and early part of the winter

sessions by the Professor, with the assistance of Mr. James Rankin, B.Sc.

N.B.—*These arrangements are subject to alteration as may be required under future Ordinances of the Universities Commissioners.*

The Professional Examinations in October, 1894, will have special reference to the *Echinodermata*, *Crustacea*, and *Mammalia*; those in April, 1895, to the *Protozoa*, *Insecta*, and *Aves*.

### SURGERY.

This Professorship was founded in 1815, and is in the gift of the Crown.

#### *Professors.*

1815. John Burns, M.D.	1860. Joseph Lister, M.B., F.R.S.
1850. James A. Lawrie, M.D.	1869. Sir George H. B. Macleod, M.D., LL.D., F.R.S.E.

1892. WILLIAM MACEWEN, M.D., LL.D.

The Professor delivers during winter a course extending to 100 meetings of the class, and consisting of systematic lectures, illustrated by diagrams, casts, and pathological preparations, and of frequent demonstrations, in many of which the electric projection microscope is used for demonstrating surgical pathological histology. There are three written examinations, with oral examinations at intervals. The following is a general outline of the course:—Anaesthesia; wounds and their varieties; haemorrhage and its arrest; inflammation, including the histological phenomena of destruction and repair; infective processes and diseases dependent upon Bacteria and their products; neoplasms; injuries, including fractures and dislocations; regional Surgery.

During summer Operative Surgery is conducted daily, and consists of descriptive instruction by the Professor in the principal operations, and the performance of recognized operations by the students under supervision.

In the course of Clinical Surgery which the Professor conducts both winter and summer at the Western Infirmary, as part of the regular Clinical Instruction given to University students, practical instruction is given in the methods of clinical observation, surgical diagnosis and treatment. The Professor also takes occasion, as far as the material is available, to draw the attention of the students to the points illustrative of the principles taught in the systematic course.

*MIDWIFERY.*

This Professorship was founded by George III. in 1815. The Professor is appointed by the Crown.

*Professors.*

1815. James Towers, M.D.	1834. William Cummin, M.D.
1820. John Towers, C.M.	1840. John M. Pagan, M.D.
1833. Robert Lee, M.D.	1868. William Leishman, M.D.
1894. MURDOCH CAMERON, M.D.	

The Lectures embrace the Theory and Practice of Midwifery and the Diseases of Children. The Professor was Physician to the University Lying-in Hospital and Dispensary, an institution which was many years ago established in the neighbourhood of the old College. The altered circumstances of the school having, however, rendered this situation unavailable for Clinical instruction, other arrangements have now been made by which the Managers of the Western Infirmary have placed a ward for the Diseases of Women under the charge of the Professor. Ample opportunity is afforded for Clinical instruction in Midwifery at the Glasgow Maternity Hospital, to which the Professor holds the appointment of Obstetric Physician.

A course of lectures on the Diseases of Women is delivered in summer.

*CHEMISTRY.*

This Professorship was founded by George III. in 1817, previous to which time (from 1747) there were Lecturers on Chemistry appointed by the University. The Professor is appointed by the Crown.

*Lecturers.*

1747. William Cullen, M.D.	1769. William Irvine, M.D.
1756. Joseph Black, M.D.	1787. Thomas C. Hope, M.D.
1766. John Robison, LL.D.	1791. Robert Cleghorn, M.D.

*Professors.*

1818. Thomas Thomson, M.D.	1852. Thomas Anderson, M.D.
1874. JOHN FERGUSON, M.A., LL.D., F.S.A.	

*Assistants.*

James Stanley Muir, B.Sc. | William R. Lang, B.Sc.

*Lectures on Systematic Chemistry.*

The Lectures of this course are delivered daily at 10 A.M. during the Winter Session. They commence with the discussion of the General Principles of Chemical Philosophy, the Non-Metallic and Metallic Elements and their compounds are

then treated of, and the latter part of the Course is devoted to the subject of Organic Chemistry. Each year's course is complete in itself, but in alternate years different departments of the Science are treated *in extenso*, Inorganic Chemistry being discussed in full one year, and a shorter time given to Organic Chemistry, while next year the Inorganic department is curtailed, and the Organic more fully treated.

*Tutorial Classes.*—In addition to attendance at the lectures, the students are required to attend the Tutorial Classes, each of which meets twice a week. In these classes additional instruction, by means of oral examination and written exercises, is given.

Written examinations of the whole class are held at intervals during the session.

#### *Higher Course.*

To meet the requirements of Ordinance No. 12, Section IX. (4) (see p. 151), a higher course will be delivered as required, It will deal with the Rare Elements, Organic Chemistry, Theories of Chemistry, and the History of Chemistry.

#### *Analytical Chemistry.*

The Laboratory is open daily during the Winter and Summer Session from 10 A.M. to 4 P.M., for instruction in Chemical Analysis and the application of Chemistry to Medicine and the Industrial Arts. Each student works independently, and goes through a regular series of analytical experiments of gradually increasing difficulty, until he is capable of performing a complete analysis. The more advanced students engage in original investigation.

#### *Practical Chemistry.*

This Course, which is intended for Medical Students, is given during the Summer Session. It treats of the methods of testing the different bases and acids, the detection of poisons, and the preparation of the more important Pharmaceutical compounds.

Attendance on the course of Chemistry being required for the Certificate in Engineering Science, and for the degree of B.Sc., the attention of students is directed to the following points. It will be found of great advantage to attend the Laboratory course as well as the Lectures, and care should be taken to arrange the classes in such a manner as to leave an interval for study between the conclusion of the Chemical Classes and the Degree Examination.

The Senate have resolved that "Hereafter no candidate for

a Certificate in Engineering Science shall be admitted to examination in the Department of Chemistry who has not attained to the value of 50 per cent. for his written exercises in the class."

*For the "Malcolm Kerr," the "Metcalf," the "George A. Clark" Bursaries, the "John Clark (Mile-end)" Scholarships, the "Breadalbane" Scholarships, the "Donaldson" Scholarships, and the "Mackay Smith" Scholarship, in connection with Chemistry, see under "Bursaries" and "Scholarships."*

### BOTANY.

This Professorship was founded in 1818. The appointment is vested in the Crown. (See page 126, as to Botanic Garden.)

#### *Professors.*

1818. Robert Graham, M.D. | 1845. G. A. Walker-Arnott, L.L.D.

1821. Sir W. J. Hooker, L.L.D. | 1868. Alexander Dickson, M.D.

1841. John H. Balfour, M.D. | 1879. I. B. Balfour, M.D., D.Sc.

1885. FREDERICK O. BOWER, D.Sc.

Lectures are given at the College every Tuesday, Wednesday, Thursday, Friday, and Saturday, at 8 A.M., during the months of May, June, and July. On Saturdays, according as the season and the weather permit, either excursions are made for the study of plants in the field, or microscopic demonstrations are given in the Laboratory.

Demonstrations are given in the Botanic Garden or at the College during June and July.

The Botanical Laboratory at the College is open daily from 9 A.M. to 4 P.M. from the end of April to the middle of July. Classes for elementary practical work in the Botanical Laboratory are formed during these months at hours, so far as practicable, to suit the convenience of students.

A course of advanced Lectures, as well as a more extended course of Practical Instruction, designed for candidates for the Science Degree, or other more advanced students, will be given in the Laboratory during the winter session. Notice of times of meeting of these classes will be given in due course.

The University Herbarium may be consulted by students on applying to the Professor.

Students in the Botanical Class may obtain, by applying to the Professor, specimens of plants from the Botanic Garden for private study.



*For particulars as to the "Dobbie Smith" Gold Medal, see under "Prizes."*

### MATERIA MEDICA.

A Lectureship on this branch was founded by the College in 1766, and a Professorship created by the Crown in 1831.

#### *Lecturers.*

1766. William Irvine, M.D.	1788. Richard Cleghorn, M.D.
1787. Thomas C. Hope, M.D.	1791. Richard Millar, M.D.

#### *Professors.*

1831. Richard Millar, M.D.	1855. John A. Easton, M.D.
1834. John Couper, M.D.	1865. John B. Cowan, M.D.
1880. MATTHEW CHARTERIS, M.D.	

In the courses of instruction and in the scheme of professional examinations prescribed by Ordinance No. 14 the subjects included in the province of this chair are described under the two branches of *Materia Medica* and *Therapeutics*. In the summer course of *Practical Materia Medica*, including *Practical Pharmacy*, which it is advisable to take before the winter course, attendance at twenty-five meetings of the class is required, and this is supplemented by demonstrations (twice weekly) of the most important substances in the *British Pharmacopœia*. Instruction is given in the making up of various official preparations, and in tests as to the purity of drugs. The winter course is devoted to a fuller statement of the properties of drugs, especially in their curative aspect. In the earlier portion of the course the Professor describes the physiological action of groups of remedies, and in the later the practical application of *Therapeutics* or the treatment of disease is discussed as fully as present circumstances permit.

*Text-books.*—For the Summer Class, Mitchell Bruce's or Whitla's *Materia Medica*; for the Winter Course, Charteris's *Practice of Medicine* (7th edition); Burney Yeo's *Manual of Medical Treatment or Clinical Therapeutics*; Whitla's *Dictionary of Treatment*.



*PHYSIOLOGY.*

This Professorship was founded by Her Majesty, Queen Victoria, in the year 1839, under the name of Theory of Physic. It was subsequently known as Institutes of Medicine, and is now, in accordance with Ordinance No. 31 of date 5th June, 1893, designated Physiology.

*Professors.*

1839. Andrew Buchanan, M.D.

1876. JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.,  
F.R.S.E., F.R.C.P.E.

*Muirhead Demonstrator and Senior Assistant.*

William Snodgrass, M.A., M.B., C.M.

*Second Assistant.*

David Fraser Harris, B.Sc. (Lond.), M.B., C.M.

## SYSTEMATIC LECTURES.

The Lectures of this course are delivered daily at 12 noon during the Winter Session. They are devoted to an exposition of the main principles and facts of the Physiology of man.

1. *General Physiology*, which includes a description of the functions of the various tissues, and of the chemical reactions which occur in the living body.

2. *Special Physiology*, or the functions of organs and systems of organs. This division of the subject includes (1) nutrition, (2) animal movements, (3) innervation, and (4) reproduction.

Examinations are held during the session.

## PRACTICAL PHYSIOLOGY.

During the *Summer Session*, practical instruction is given in the Laboratory, by the Professor, the Muirhead Demonstrator, and Assistants, to classes of not more than thirty-five students in each class, at such hour or hours as may be found convenient. The hours usually selected are 8 to 9 A.M. and 12 noon to 1 P.M. daily (except Saturday). This course includes :—(1) Instruction in the use of the microscope, and in the microscopical examination of the various tissues with the aid of modern methods of hardening, staining, cutting, and mounting preparations. (2) The analysis of the principal fluids of the body, with special reference to the physiological processes by which they are produced. (3) The modes of observing and recording physiological phenomena. Students will be instructed in the use of physio-

logical apparatus, and will have the opportunity of acquiring information which cannot readily be communicated in systematic lectures.

#### ADVANCED CLASS OF PRACTICAL PHYSIOLOGY.

A practical class has been instituted to meet the requirements of candidates for the degree of B.Sc. It will meet during the winter session at a suitable hour, on two or three days weekly, and the course will comprise fifty meetings. Students will be taught (*a*) the more advanced methods of Physiological Chemistry, (*b*) special methods in advanced Histology, and (*c*) the use of physiological apparatus, the experimental investigation of the properties of muscle and nerve, the physics of the circulation, and the physiology of the senses. This course is wholly practical, and is designed to supplement the instruction given in the ordinary class of Practical Physiology, and to lead the student into the higher departments of physiological science.

#### *The Laboratory.*

The Laboratory is open daily from 10 A.M. to 4 P.M., under the superintendence of the Professor, to whom application should be made by those who may wish to pursue original investigation. It is furnished with the most modern appliances both for research and for the illustration of lectures on Physiology.

#### *Text-Books.*

For the Systematic and Practical Classes—*Text-Book of Physiology*, 2 vols., by Dr. M'Kendrick.

As to the Muirhead Demonstratorship of Physiology see p. 104.

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### FORENSIC MEDICINE.

This Professorship was created by the Crown in 1839.

#### *Professors.*

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.  
1872. PIERCE ADOLPHUS SIMPSON, M.A. (Cantab.), M.D.

The lectures on Forensic Medicine are intended to elucidate the application of Medical Science to judicial proceedings, whether civil or criminal.

The first part of the course is occupied with Medical Evidence as bearing on personal injuries, including Poisoning. This is followed by lectures on Hygiene, on questions connected with the Sexual Functions, and on those relating to Bodily and Mental Soundness.

In addition to oral examinations, subjects are prescribed for written exercises ; and in the department of Toxicology facilities are afforded for students desirous of becoming practically acquainted with the tests for poisonous substances, and the processes for separating these from organic mixtures.

N.B.—*The Lectures on Forensic Medicine are delivered during the Summer Session daily at 11 a.m. (See under Faculty of Law.)*

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### CLINICAL SURGERY.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

*Professor.*

1874. GEORGE BUCHANAN, M.A., M.D., LL.D.

The Professor teaches Clinical Surgery by "Lectures and other instruction" on the cases of patients affected with injuries, diseases, etc., requiring Surgical treatment. There is a Summer as well as a Winter Course.

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### CLINICAL MEDICINE.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

*Professor.*

1874. THOMAS M'CALL ANDERSON, M.D.

The class meets five days a week during the winter and summer sessions, and three or four written examinations are held. On Mondays and Fridays the Professor meets the whole class in the lecture-room. On the Monday three or four cases (such as may be studied beyond the immediate vicinity of the patient) are demonstrated ; on the Friday, a clinical lecture is given on cases in the wards, or upon some subject bearing upon the course. On Tuesdays the Professor meets the junior and on Thursdays the senior division of the class, when there is a demonstration of several cases in the wards. On Wednesdays he makes a ward visit with the clinical clerks. The two medical tutors meet the senior division of the class (in two subsections) on Tuesdays, and the junior on Wednesdays and Thursdays, when the students are brought individually into contact with the patients, are taught how to investigate their cases, and are

instructed in the use of instruments, apparatus, etc. On Saturdays one of the tutors revises with the clinical clerks the cases which they have reported during the week.

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### PATHOLOGY.

This Chair was founded by Ordinance No. 29 of the Universities Commissioners (1889) of date 5th June, 1893. The patronage is vested in seven Curators, of whom four are nominated by the University Court and three by the Directors of the Western Infirmary. Before the Curators proceed to appoint a Professor, they must receive intimation from the University Court that an arrangement has been made with the Directors of the Infirmary to the satisfaction of the Court for affording due facilities in the Infirmary for the accommodation and teaching of the class of Pathology.

#### *Professor.*

1894. JOSEPH COATS, M.D.

Pathology has hitherto been taught by Dr. Joseph Coats, who was appointed Lecturer in 1890, and who also held and still holds the office of Pathologist to the Western Infirmary. The class has been conducted in the Infirmary, and material for practical instruction has thereby been afforded.

Two courses are held, one of Pathology in winter, and one of Practical Pathology in summer.

The course of Pathology consists of systematic lectures and demonstrations. The lectures are devoted to an exposition of the fundamental facts and principles of Pathology. In the demonstrations the fresh material from the Infirmary is used as the basis for an exposition of the subjects illustrated by it. Microscopic demonstrations are held on Saturdays in connection with both the lectures and demonstrations.

The class of Practical Pathology meets during the Summer Session. The students are taken through a course of Pathological Histology and Bacteriology.

In the work of the classes two assistants take part. The Museum of the Western Infirmary is open to the students, and a printed catalogue is provided. The post-mortem examinations, which are conducted from 10 a.m. onwards, are also open to the students. Text-books.—*A Manual of Pathology* by Dr. Joseph Coats, and *Practical Pathology* by Dr. J. Lindsay Steven.

*PHYSICS.*

This Lectureship was instituted by the University in 1894.

*Lecturer.*

MAGNUS MACLEAN, M.A., F.R.S.E.

The lectures of this course are delivered daily at 2 p.m. during the months of January, February, and March. The lectures embrace the fundamental principles of the Dynamics of Solids, Liquids, and Gases; and the Rudiments of the Experimental Sciences—Sound, Light, Heat, Magnetism and Electricity. A detailed programme of these subjects, and a note of the text-books used and recommended, will be given to each student at the beginning of the course.

Two written examinations are held during the session.

There is a tutorial hour on Saturdays at 9 a.m., in which additional instruction is given by oral examination and written exercises on the previous lectures.

*For the Arnott Prize in General Physics, see Index.*

*DISEASES OF THE EYE.*

This Lectureship was instituted by the University in 1828. Great advantages are offered to students for the study of this branch of practice by the Lecturer being one of the Surgeons of the Glasgow Eye Infirmary.

*Lecturers.*

1828. William M'Kenzie, M.D. | 1868. George Rainy, M.D.  
1869. THOMAS REID, M.D.

*Waltonian Medical Lectureship.*

Founded in 1788 by Rev. Dr. William Walton, of Upton, in the County of Huntington, who bequeathed to the Senate for its support the sum of £1,000, which has been increased by subsequent accumulations to £2,650. It is at present held by DR. THOMAS REID, who is also lecturer on Diseases of the Eye.

*INSANITY.*

This Lectureship was instituted by the University in 1880. Great advantages are offered to students for the study of this subject, the Lecturer being Physician-Superintendent of the Royal Lunatic Asylum, Gartnavel.

*Lecturer.*

1880. DAVID YELLOWLEES, M.D., LL.D.

A Course of Lectures is given in the University at 12 noon on Wednesdays during the summer session, and Clinical Instruction at the Asylum, Gartnavel, at 3 p.m. on Wednesdays and 10 a.m. on Saturdays.

*For the Mackintosh Mental Science Bursary in connection with this class see "Bursaries."*

## IV.—FACULTY OF LAW.

*EMBRYOLOGY.*

This Lectureship was instituted by the University Court in 1894.

*Lecturer.*

1894. JOHN YULE MACKAY, M.D.

A course of lectures and demonstrations is given during the summer session. In 1894 the Class met in the Anatomy Classroom at 11 a.m. on Mondays, Tuesdays, Thursdays, and Fridays. Should any change in the arrangements be found necessary in 1895, due intimation will be made before the beginning of the summer session.

General Scholarship, his examination in Law may be proceeded with, subject to these conditions: (1) That he shall not during the year before such examination have engaged (except with the sanction of the Dean and his Council, upon special application before the year commences) in any trade, business, or profession, either on his own account, or as assistant to or in the employment of another; and (2) that he shall produce evidence of attendance on a certain course of study in Law. The attendance so required is as follows:—(1) attendance during at least one session as a pupil in a class of Scots Law, and a class of Conveyancing, in a Scottish University; (2)

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*For the Mackintosh Mental Science Bursary in connection with this class see "Bursaries."*

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#### IV.—FACULTY OF LAW.

The Faculty of Law embraces the Chairs of Law and Conveyancing, and also the Chair of Forensic Medicine. In this Faculty there are also Lectureships on Jurisprudence, Public International Law, International Private Law, Civil or Roman Law, Mercantile Law, and Constitutional Law and History.

For the information of students proposing to enter the legal profession, whether as Advocates or as Law Agents, it may be stated that by the regulations of the Faculty of Advocates, every intrant to the Faculty is required to produce evidence of being duly qualified (1) in General Scholarship, and (2) in Law. In General Scholarship the possession of any one of certain University degrees, including the degree of M.A. or LL.B. from a Scottish University, is deemed a sufficient qualification. If the intrant does not hold a qualifying degree he is required to undergo an examination in certain specified branches of General Scholarship, as to which information may be obtained on application to the Clerk of Intrants to the Faculty. On the expiration of a year after the intrant has been found qualified in General Scholarship, his examination in Law may be proceeded with, subject to these conditions: (1) That he shall not during the year before such examination have engaged (except with the sanction of the Dean and his Council, upon special application before the year commences) in any trade, business, or profession, either on his own account, or as assistant to or in the employment of another; and (2) that he shall produce evidence of attendance on a certain course of study in Law. The attendance so required is as follows:—(1) attendance during at least one session as a pupil in a class of Scots Law, and a class of Conveyancing, in a Scottish University; (2)

attendance during at least one session as a pupil in a class of (a) Civil Law, (b) Public or International Law, and (c) Constitutional Law in a Scottish University or in such other University as may be approved of by the Dean and his Council, and (d) Medical Jurisprudence, in a University, or in a School recognized as qualifying for University Degrees. On the production by the intrant of evidence of his having attended the necessary classes (which he may attend in any order he thinks fit), he is examined (1) on Civil Law, (2) on Private International Law, and (3) on Scots Law. If, however, the intrant has obtained the degree of LL.B. from a Scottish University he is held qualified in General Scholarship and Law without examination or other evidence of qualification, and may at once proceed to what is termed his "Public Examination," subject to the condition that during the year immediately before presenting his diploma he shall not have been engaged in any trade, business, or profession, as above set forth, except with the previous sanction of the Dean and his Council. The regulations regarding the "Public Examination," which all intrants, whether graduates or not, must undergo, require that the intrants shall write a Thesis on a Title of the Pandects assigned to him by the Dean, and shall defend it on its being impugned. The question as to the intrant's admission is then decided by the Faculty voting by ballot.

Admission to the profession of a Law Agent is regulated by the Law Agents Act, 1873, 36 and 37 Vict., c. 63, and by certain relative Acts of Sederunt of the Court of Session, including one dated 20th December, 1873, prescribing rules as to subjects of examination and certain conditions of admission. The Act requires in general that every applicant for admission must have served an apprenticeship of five years with a practising law-agent or with a sheriff-clerk in office at the passing of the Act, which apprenticeship, if entered upon after the passing of the Act, must be served under indenture, recorded and intimated as the Act requires. In certain cases, however, an apprenticeship for three years is allowed as sufficient, the excepted cases including that of a person holding a degree in Law or in Arts of a University in Great Britain or Ireland granted after examination. The above-mentioned Act of Sederunt provides that (save in certain special excepted cases) no one shall be admitted as an apprentice until he has passed an Entrance Examination by the Examiners appointed by the

Court. It also prescribes the subjects of that examination as well as of the examinations in General Knowledge and in Law which (subject also to certain exceptions) every applicant for admission as a Law Agent is required to pass before the same Examiners. An apprentice or applicant for admission is exempted from any entrance examination or examination in General Knowledge, if (*inter alia*) he holds a degree of any University in Great Britain or Ireland granted after examination, or if he has attended in three separate sessions three separate classes in Arts in any Scottish University (one of such classes being Humanity), and has taken part in the examinations in such classes. Also apprentices and applicants for admission who hold Leaving Certificates granted by the Lords of the Committee of the Privy Council on Education to pupils of Higher Class Schools, are exempted from examination in the subjects which these Certificates cover, Certificates of any Grade being sufficient for the Entrance Examination, but Higher Grade Certificates being necessary for the General Knowledge Examination. By an Act of Sederunt of 20th July, 1878, it is declared not to be necessary for any applicant for admission who holds the degree of LL.B. or B.L. of any Scottish University to undergo an examination in Law before the Examiners, excepting only on Forms of Process, Civil and Criminal. By an Act of Sederunt of 4th November, 1886, it is provided that, while it is not necessary for admission as a Law Agent that any applicant shall have attended the classes of Scots Law and Conveyancing in a Scottish University, it shall be in the power of the Examiners, in conducting the examination of any applicant, to take into account whether such applicant has or has not attended such classes.

Important changes on the regulations regarding admission to the profession of a Law Agent have been made by an Act of Sederunt, dated 18th March, 1893, which comes into operation (in terms of an Act of Sederunt of 19th December, 1893) on 1st January, 1895, by which the Act of Sederunt of 20th December, 1873, and all amending provisions in subsequent Acts of Sederunt are repealed except as to anything that has been done in pursuance thereof. This Act of Sederunt institutes two examinations in General Knowledge, instead of the present Entrance Examination and General Knowledge Examination, the first of which is to be taken before or within one year after the commencement of apprenticeship, and the

second either immediately after the first examination or at any time within three years thereafter. The Act of Sederunt prescribes the subjects of these examinations and of the examination in Law. Lower or Higher Grade Leaving Certificates exempt from the first examination in General Knowledge, and Higher Grade Leaving Certificates from the second examination. Higher Standard Certificates in the Preliminary Examination for M.A. under Ordinance No. 11 exempt from both of these examinations. A candidate for admission as Law Agent is exempted from any examination in General Knowledge, if (*inter alia*) he hold a Degree of any University in the United Kingdom granted after examination, but there is no exemption from examination of a candidate who has attended three separate classes in Arts in separate sessions as under the previous Act of Sederunt. But by Act of Sederunt of 12th July, 1893, a Candidate does not require to undergo examination in General Knowledge if he has been admitted as apprentice under indenture, and passed the entrance examination prescribed under the Act of 20th December, 1873, prior to 18th March, 1893, and has attended classes in Arts in terms of the Act of 20th December, 1873, and has completed attendance in such classes prior to 1st November, 1895. Further, by the Act of Sederunt of 18th March, 1893, a candidate who holds the degree of LL.B. or B.L. of any Scottish University is exempted from any examination in Law, excepting only on Forms of Process, Civil and Criminal. Candidates who have passed the Entrance Examination under the previous existing rules are exempt from the first examination under this Act of Sederunt, and candidates who have passed the General Knowledge Examination, prescribed by the Act of Sederunt of 20th December, 1873, before 1st January, 1894, are exempted from further examination in General Knowledge, and candidates who have passed the examination in Law under the said Act of Sederunt are exempt from further examination in Law.

For Regulations as to Graduation in Law, see Index.

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#### LAW.

This Professorship is in the gift of the Crown. After being long in abeyance for want of revenue, it was revived by the College in 1712, and endowed by Queen Anne in the following year.

*Professors.*

1714. Wm. Forbes, Advocate.	1842. Allan A. Maconochie,
1746. Wm. Cross, Advocate.	Advocate.
1750. Hercules Lindsay, LL.D.	1855. Geo. Skene, Advocate.
1761. John Millar, Advocate.	1867. Robert Berry, M.A.,
1801. R. Davidson, Advocate.	LL.D., Advocate.
1887. ALEXANDER MOODY STUART, LL.D., Advocate.	

SCOTS LAW.—The course extends to about 100 Lectures, embracing as full a course of Scots Law in each session as the time will permit, and including, so far as practicable, Lectures on the following subjects:—Sources and Development of the Law of Scotland; the Law of Contracts and Obligations generally, their Constitution and Extinction, Legality and Illegality; the Law of Sale, at Common Law and as affected by Statute; Stoppage *in transitu*; Retention and Lien; Loan; Deposit; Pledge; Hiring, and the Law of Master and Servant; Law of Carriers and Affreightment; Mandate; Partnership; Bills of Exchange; Cautionary Obligations; Marine, Fire, and Life Insurance; Law of Heritage; Servitudes; Prescription as applicable to Heritage; Law of Landlord and Tenant; Succession in Heritage and Moveables, Testate and Intestate; Marriage and Divorce, and the Rights of Husband and Wife; Law of Parent and Child; Guardian and Ward; Actions and Evidence; Diligence and Bankruptcy; Criminal Law, etc.

The text-books recommended to Students are Bell's *Principles of the Law of Scotland* and Erskine's *Principles of the Law of Scotland* (18th edition).

The Class meets five days a week—viz., every day except Monday, from 8 to 9 A.M. At intervals throughout the session the hour is devoted to the ordinary Class examinations, which are conducted in writing.

Three Prizes are given by the University for proficiency in the class examinations; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Conveyancing. Prizes are also given by the Faculty of Procurators, generally for distinction in a special written examination towards the end of the session.

## CONVEYANCING.

This Chair was instituted by ordinance of the Universities Commissioners (1858), of date 15th June, 1861, which was approved by Her Majesty in Council on 11th October, 1861. The right of appointment to the Chair is vested in the Dean and Council of the Faculty of Procurators, Glasgow.

*Professors.*

1862. Anderson Kirkwood, LL.D.

1867. Sir James Robertson, LL.D.

1889. JAMES MOIR, Member of the Faculty of Procurators, Glasgow.

The Course extends to about 100 Lectures, and during the session there are both oral and written examinations. As full a course of Conveyancing is given each session as the time permits. The subjects treated will be selected from the following list, viz. : (1) Introductory and Preliminary Lectures. (2) The Feudal and Burgage System, the constitution of Feudal and Burgage Rights, and the transmission thereof by Deeds *inter vivos*, or by Judicial Acts. (3) Heritable Securities. (4) Leases. (5) Marriage Contracts, Bonds of Provision, Testamentary Deeds and Deeds of Entail. (6) The completion of Titles, in case of death, to Heritable and Moveable Estate.

The Class meets every day, except Monday, from 8 to 9 A.M.

The text-book recommended is Professor A. M. Bell's *Lectures on Conveyancing*.

Prizes are given for eminence in the Class examinations during the session. Prizes are also given by the Faculty of Procurators for distinction in a written examination held towards the end of the session on some of the subjects of the course; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Scots Law.

## FORENSIC MEDICINE.

This Professorship was created by the Crown in 1839.

*Professors.*

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.

1872. PIERCE ADOLPHUS SIMPSON, M.A. (Cantab.), M.D.

This Course qualifying for graduation in Law (B.L. and



LL.B.), is delivered during the summer session. (*Text-book—Principles of Forensic Medicine* by Guy and Ferrier.)  
(See under Faculty of Medicine, p. 85.)

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### CIVIL LAW.

From 1868 a class of Civil Law was taught in alternate sessions by the Professor of Law, but in 1894 the University Court, carrying out a recommendation of the Universities Commissioners (1876), instituted a separate Lectureship on Civil Law. Attendance at this Class is required of all Candidates for Degrees in Law (LL.B. and B.L.), and it also qualifies for the Degree of M.A.

The Class meets four days a week from 8 to 9 a.m. At intervals throughout the session the hour is devoted to the ordinary Class examinations, which are conducted in writing.

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### CONSTITUTIONAL LAW AND HISTORY.

This Lectureship was instituted by the University in 1878, and the Class was taught in alternate years during the Summer session, the course extending to forty lectures. In 1894 the University Court, to meet the requirements of the Ordinances for Graduation in Law, placed the Lectureship upon a new footing. The Course was extended to eighty lectures, and the Class was made a Winter Class. Attendance upon the whole course is required of all candidates for the Degree of Bachelor of Laws (LL.B.). Attendance upon the first fifty lectures of the course qualifies for the Degree of M.A., subject to the conditions laid down in Ordinance No. 11, and for the Degree of B.L., subject to the conditions laid down in Ordinance No. 40.

The hour for the meeting of the Class is 5.30 p.m.

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### GENERAL OR COMPARATIVE JURISPRUDENCE.

This Lectureship was instituted by the University in 1893, under the title Philosophy of Law.

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#### *Lecturer.*

1893. WILLIAM GALBRAITH MILLER, M.A., LL.B., Advocate.

The course extends to fifty lectures, and is given in the summer session. Attendance upon these lectures is required of all Candidates for the Degree of LL.B., and it also qualifies for the Degree of B.L., under the conditions laid down in Ordinance No. 40. The same course under the name of Philosophy of Law may be reckoned as a half-course qualifying for the Degree of M.A., under the conditions laid down in Ordinance No. 11.

The hour for the meeting of the Class is 5.30 p.m.



### THE LAW OF NATIONS, OR PUBLIC INTERNATIONAL LAW.

In 1878 the University instituted a Lectureship on Public Law. In 1894 the University Court, to meet the requirements of the Ordinances for Graduation in Law, created a separate class for Public International Law.

*Lecturer.*

1878. WILLIAM GALBRAITH MILLER, M.A., LL.B., Advocate.

The course extends to fifty lectures, and is given in the first portion of the Winter session. Attendance on this course is required of all Candidates for the Degree of LL.B., and, subject to the conditions laid down in Ordinance No. 40, it qualifies for the Degree of B.L. The same course, under the name of Public Law, may, subject to the conditions laid down in Ordinance No. 11, be reckoned as a half-course for the Degree of M.A.

The Lectures will be partly doctrinal and partly historical, covering the chief topics in the text-book—Hall's *International Law* (3rd edition). The Class meets at 5.30 p.m.

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### INTERNATIONAL PRIVATE LAW.

In 1894 the University Court, to meet the requirements of the Ordinances for Graduation in Law, instituted a Lectureship on International Private Law.

*Lecturer.*

1894. WILLIAM GALBRAITH MILLER, M.A., LL.B., Advocate.

This course extends to forty lectures, and is given in the second half of the Winter session, beginning in January, after the close of the Lectures on Public International Law. Attendance on the course may, subject to the conditions laid down in Ordinance No. 39, be reckoned as qualifying for the Degree of LL.B., and, subject to the conditions laid down in Ordinance No. 40, for the Degree of B.L. The hour for the meeting of the Class is 5.30 p.m.

Text-book—Guthrie's *Savigny's Private International Law*.

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### MERCANTILE LAW.

This Lectureship was instituted by the University in 1894.

*Lecturer.*

1894. JAMES MACKENZIE.

This course will extend to eighty lectures, and will be given for the first time in session 1895-96. Attendance on the whole course may, subject to the conditions laid down in Ordinance No. 39, be reckoned as qualifying for the Degree of LL.B.; and attendance on forty lectures, constituting a half-course, may, subject to the conditions laid down in Ordinance No. 40, be reckoned as qualifying for the Degree of B.L.

## V.—FACULTY OF THEOLOGY.

The Faculty of Theology embraces the four classes of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Divinity and Biblical Criticism.

The following regulations are applicable to students preparing for the ministry of the Church of Scotland. Under the Act of General Assembly, 1883, consolidating the Acts presently in force in regard to the study of Divinity, all candidates for the ministry are required to attend at the Divinity Hall either three full and regular Sessions, or two full and regular sessions and three partial sessions; and to give at least two full sessions of regular attendance on the Classes of Church History, Hebrew, and Biblical Criticism.

Each student, in order to be enrolled *for the first year* of his attendance must present to the Professor of Divinity, *first*, a certificate from the Presbytery within the bounds of which he usually resides, and by which he has been examined on his knowledge of the Holy Scriptures according to the authorized version, and of the Catechetical standards of the Church; and, *secondly*, a certificate signed by the Convener or Vice-Convener of one of the four Examining Committees appointed, under the Act of Assembly, 1872, to conduct the examination of students previous to their entering the Divinity Hall.<sup>1</sup> In order to be admitted to this examination he must produce, in addition to the certificate from the Presbytery recommending him, the diploma of a Master of Arts, or certificates from the several Professors under whom he has studied, that he has attended regularly all the classes prescribed by the Church for students who intend entering the Hall—viz., Latin, Greek, Logic, Mathematics, Moral Philosophy, Natural Philosophy, and English Literature, in such order as is prescribed at the University in which he has studied, and to the extent required

<sup>1</sup> The Examining Committees meet at the respective University seats shortly before the commencement of each session, the times and places of meeting being duly announced in the "Missionary Record" of the Church of Scotland for July annually, along with the names of the Conveners and Vice-Conveners of the respective Committees. The programme of the books and subjects of examination for Session 1894-95 will be found in the "Missionary Record" for April, 1894, and the full notice, with the regulations, will appear in the July "Record."

for proceeding to the degree of Master of Arts. If he produces evidence that he holds the degree of Master of Arts, or that he has passed all the examinations required for taking that degree, it is competent for the Examining Committee to exempt him from examination in those branches of Literature and Science proficiency in which is denoted by such a degree. The examination extends also to the *New Testament in Greek* and the *Elements of Hebrew Grammar*.

The student, in order to his enrolment *for each subsequent session* of his course, is required to present to the Professor of Divinity a certificate from the Presbytery within whose bounds he chiefly resides, of his having been examined by them on the progress made by him in his studies, and of their satisfaction with the same, as well as a certificate of his good moral character from the minister of his parish, or, during a vacancy in the parish, from the moderator of the kirk-session.

At the close of each session every student is required to take with him to the Presbytery certificates from the several Professors, under whom he has studied, of his good conduct and proficiency.

By Act XX. of the General Assembly, 1889, it is enacted—"That all students of Theology, who have completed the prescribed course of theological instruction, shall, before applying to any Presbytery to be taken on trial for licence, be examined by the Synodical Committee already existing for the examination of students entering the Divinity Hall—with such addition to the number of members of each of the said Examining Committees as the General Assembly shall determine—on the various subjects of theological study, leaving to Presbyteries the powers of examination for licence hitherto possessed and exercised by them; but providing that every candidate for licence by a Presbytery shall produce to the Presbytery a certificate from one of the said Examining Committees that his examination by them has been sustained; it being always competent to the said Examining Committee to exempt students who have taken the degree of Bachelor in Divinity at one of the Universities of Scotland from examination in those subjects of theological study, proficiency in which is denoted by the said Degree."<sup>1</sup>

<sup>1</sup> The Exit Examination at Glasgow will be held on 10th and 11th April, 1895, and the subjects will be intimated in the "Missionary Record" for July 1894.

Students are required to study the art of public reading and speaking under some competent teacher approved by the Faculty of Theology,<sup>1</sup> during at least one hour a week in each of two sessions, the attendance extending in every case over at least sixteen weeks of the session, and to produce, before being taken on trials, due evidence of such attendance.

Each student is required during his curriculum to deliver *six* discourses—viz., an EXEGESIS in Latin on some controverted head in Divinity, a HOMILY in English, a CRITICAL EXERCISE on some portion of the original text of the Old Testament, an EXERCISE and ADDITION on some portion of the original text of the New Testament, a LECTURE on some portion of Scripture, and a POPULAR SERMON, with such other exercises as the Professors may think fit to prescribe. No student can be taken on trials for licence by any Presbytery until he has produced, along with Class Certificates from the Professors of Church History, Hebrew, and Biblical Criticism, a Certificate from the Professor of Divinity that the discourses so prescribed have been sustained.

The Faculty of Theology have adopted the following regulations as to the delivery of these discourses:—(1) That the Homily shall be given in to the Professor of Church History at such time as he shall appoint in the *first* session of the student's course; (2) that the Latin Exegesis shall be given in to the Professor of Divinity, and the Lecture to the Professor of Biblical Criticism, in the *second* year of the student's course, at such times as shall be appointed by these Professors respectively; and (3) that the Popular Sermon shall be given in to the Professor of Divinity, the Hebrew Critical Exercise to the Professor of Oriental Languages, and the Exercise and Addition to the Professor of Biblical Criticism, in the *third* session of the course, at such times as shall be appointed by the several Professors. The subjects of the Discourses will be prescribed by the Professors to whom they are severally to be given in.

<sup>1</sup> For the purposes of the Act of Assembly, and to qualify for the competition for the Dowanhill Prizes, the following teachers are recognized :—Mr. Henry Cooke, 38 Carnarvon Street; Mr. Thomas Harrower, 197 Pitt Street; Mr. William S. Vallance, 291 Sauchiehall Street; Mrs. Cunningham Craig, 11 Kersland Street, Hillhead; Mr. John Forsyth, 104 Grove Street; Mr. W. Ramsay Crawford, 18 Rothesay Gardens, Partick; Mr. R. M. Hardie, M.A., 244 Great Western Road; and Mr. David B. Johnstone, A.Mus., 16 Burnbank Terrace.

*DIVINITY.*

This Professorship was founded in 1640, and the foundation ratified in Parliament. The Professor is appointed by the University Court.

*Professors.*

1640-50. David Dickson.	1740. Michael Potter.
1642-61. Robert Baillie.	1744. William Leechman, D.D.
1653. John Young.	1761. Robert Trail, D.D.
1669. Gilbert Burnet, D.D.	1775. James Baillie, D.D.
1674. David Liddell.	1778. William Wight, D.D.
1682. Alexander Ross, D.D.	1782. Robert Findlay, D.D.
1688. James Wemyss, D.D.	1814. Stevenson Macgill, D.D.
1692. James Wodrow.	1840. Alexander Hill, D.D.
1708. John Simson.	1862. John Caird, D.D.
1873. WILLIAM PURDIE DICKSON, D.D., LL.D.	

The Course of Theology extends over three sessions. The Lectures during next session will treat partly of Biblical Theology, partly of the History of Doctrine, and of Apologetics. A portion of time will be devoted to instruction in Systematic Theology on the basis of a text-book. Essays and Discourses are prescribed to the students. In addition to the oral examinations on the Lectures, examinations in writing on the studies of the Class will be held at intervals during the session.

The Class will meet on five days of the week, in two divisions, the Senior at 11 A.M. and the Junior at 12 o'clock.

PASTORAL TRAINING.—By a recent arrangement of the General Assembly six lectures on this subject will be given by the Rev. George Wilson, St. Michael's, Edinburgh.

*HEBREW AND SEMITIC LANGUAGES.*

This Professorship was founded by Queen Anne, 1709, under the title Oriental Languages. It is now designated Hebrew and Semitic Languages, in accordance with Ordinance No. 31 of the Universities Commissioners (1889) of date 5th June, 1893. The Professor is appointed by the University Court, and is a member not only of the Faculty of Divinity but also, since 1893, of the Faculty of Arts.

*Professors.*

1709. Charles Morthland.	1761. Robert Trail, D.D.
1745. Alexander Dunlop, M.A.	1761. Patrick Cumin, LL.D.
1751. William Rouet.	1814. Gavin Gibb, D.D.
1753. George Muirhead.	1831. William Fleming, D.D.
1755. John Anderson, M.A.	1839. George Grey, D.D.
1757. James Buchanan, M.A.	1850. Duncan H. Weir, D.D.
1877. JAMES ROBERTSON, D.D.	

By Ordinance No. 11 of the Universities Commissioners (1889) "Hebrew" and "Arabic or Syriac" are now included among the departments of study for graduation in Arts, and "Semitic Languages" among those for graduation with Honours.

The existing regulations of the Church of Scotland require all students of Divinity to give attendance on Hebrew for two sessions. The following are the arrangements for Session 1894-95 :—

I.—*Junior Class (Hebrew)*, five days in the week at 10 A.M.  
(1) Davidson's *Introductory Hebrew Grammar*, with the Exercises ; (2) Readings from the easier books of Scripture.

II.—*Senior Class (Hebrew)*, five days in the week at 9 A.M.  
(1) Readings in the Hebrew Scriptures ; (2) Exercises in Unpointed Text and Translations from English ; (3) Study of the Syntax and the Accents ; (4) History of the Massoretic Text.

In each of these classes there will be daily oral examinations, weekly written exercises, and four written examinations during the session.

The Senior Hebrew is appointed as the qualifying class for graduation in Arts. Before attending the class for this purpose, students are required by the Ordinance No. 11, § iv., 3, to pass a preliminary examination in Hebrew "on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination." Students presenting themselves for this examination will be expected to know as much as is implied in the work of the Junior Hebrew Class, and will be examined in grammar, and in translation both from Hebrew into English and from English into Hebrew.

III.—An elementary *Arabic Class* (to meet three days in the week), and an advanced *Syriac Class*, will also be formed, if students offer. The hours will be fixed as found most convenient at the commencement of the session.



IV.—Divinity students who may be attending, or shall have attended the Senior Class, will have an opportunity of attending Lectures on Old Testament Introduction and Exegesis at separate hours, of which notice will be given at the commencement of the session.

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### ECCLESIASTICAL HISTORY.

The Professorship of Ecclesiastical History was founded by George I., in the year 1716, but no appointment was made to the Chair till the year 1720. The Professor is appointed by the Crown.

By his Commission, the Professor of Ecclesiastical History is also TEACHER OF CIVIL HISTORY in the University.

#### *Professors.*

1721. William Anderson.	1807 <sup>1</sup> . William M <sup>c</sup> Turk, D.D.
1752. William Rouet.	1841. Jas. Seaton Reid, D.D.
1762. William Wight, D.D.	1851. Thos. T. Jackson, D.D.
1778. Hugh M <sup>c</sup> Leod, D.D.	1874. William Lee, D.D.
1886. ROBERT HERBERT STORY, D.D.	

The course extends over two sessions, and embraces a series of lectures as well as oral and written examinations. The junior and senior classes meet at separate hours, the junior from 11 to 12 o'clock, the senior from 12 to 1 o'clock.

Both classes are open to non-professional students.

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### DIVINITY AND BIBLICAL CRITICISM.

This Professorship was founded by ordinance of the Universities Commissioners (1858), of date 25th November, 1861. The Professor is appointed by the Crown.

#### *Professors.*

1863. William P. Dickson, D.D.  
1873. WILLIAM STEWART, D.D.

This Class will meet on five days of the week, at 10 A.M.

The course of lectures is arranged to extend over two sessions; and the Class should accordingly be attended in two *consecutive* years.

The lectures for 1894-95 will treat of the principles of Interpretation, and of some portions of New Testament Introduction.

<sup>1</sup> Dr. M<sup>c</sup>Turk was assistant and successor to Dr. M<sup>c</sup>Leod from 6th March, 1797.



The practical application of the principles of Criticism and Hermeneutics will be illustrated in Exegetical Lectures, and by the reading of portions of the Greek New Testament.

Essays on subjects suggested by the work of the Class are prescribed at intervals during the session, and the progress of the students is further tested by examinations, partly oral and partly written.

*Class of New Testament Greek.*—This tutorial class is intended for those who are preparing to pass the examination on the *New Testament in Greek* previous to entering the Divinity Hall, and for those who, with a view to the Exit Examination at the close of the Divinity course, desire to extend their knowledge of New Testament Greek. It will be formed only if a sufficient number of students present themselves, and will meet on three days of the week, viz., Tuesday, Wednesday, and Thursday, at 9 A.M.

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#### IV.—DEMONSTRATORSHIPS, ETC.

##### THE ARNOTT AND THOMSON DEMONSTRATORSHIP IN EXPERIMENTAL PHYSICS.

This Demonstratorship was founded in 1875 by the liberality of Sir William Thomson and Mrs. Arnott, widow of Dr. Neil Arnott, founder of the Arnott Prizes, who invested respectively £2,000 and £1,000 for the purpose of encouraging the study of Experimental Physics in the University of Glasgow. The Demonstratorship is in connection with the Physical Laboratory of the University. The holder is appointed annually by the Professor of Natural Philosophy, subject to the approval of the University Court, and his duties are to perform, and direct in the performance of, experimental researches in the Physical Laboratory, in connection with, and under the direction of, the Professor of Natural Philosophy, to give practical laboratory courses suitable for Medical and Engineering students, and to take part in the teaching of the Natural Philosophy Class, if required by the Professor, and in such way and at such times as may be appointed by the Senatus Academicus of the University.

*Demonstrator.*

1875. JAMES THOMSON BOTTOMLEY, M.A., D.Sc., F.R.S.

## THE MUIRHEAD DEMONSTRATORSHIP OF PHYSIOLOGY.

In January, 1877, the late Dr. Henry Muirhead, of Longdales, Bothwell Parish, and afterwards of Cambuslang, presented to the University the sum of £2,100, and in November, 1879, a further sum of £400 to endow a Demonstratorship of Physiology in connection with the Chair of Institutes of Medicine—the main object being the promotion of medical science by the training of young men of suitable capacity to become teachers and investigators of Physiology. The regulations with reference to the appointment are as follows:—

1. That the title of the appointment be “The Muirhead Demonstrator of Physiology.”
2. That the holder of the office shall act as an assistant to the Professor of Institutes of Medicine in teaching the classes of Systematic and Practical Physiology and in original investigation.
3. That he shall also be expected and encouraged to engage in independent scientific investigation under the direction of the Professor.
4. That he will not be entitled to conduct any class on his own account without the consent of the Professor.
5. That the incumbent will be expected to devote his entire time to the duties of the appointment.
6. That the appointment be made annually by the Senatus Academicus, with the consent of the University Court, on the recommendation of the Professor of the Institutes of Medicine, who shall furnish evidence to the Senatus of the suitability of the person recommended by him.

*Present Demonstrator.*

WILLIAM SNODGRASS, M.A., M.B., C.M.

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## THE WILLIAM BAXTER DEMONSTRATORSHIP IN GEOLOGY.

This Demonstratorship was founded by the Trust Disposition and Settlement of Mr. William Baxter, Hillhead, Glasgow, who died on 20th November, 1888, and bequeathed to the Senate the sum of £2,500, free of legacy duty, the annual income of which, less the cost of management, he directed should be paid half-yearly to the Demonstrator on the joint certificate of the

Clerk of Senate and the teacher of Geology for the time being. The Senate are the patrons of the Demonstratorship.

The following Regulations, drawn in terms of the Founder's will, were adopted by the Senate on 28th February, 1889:—

1. The Demonstratorship shall be held for three years, and shall be open to the candidate who in the three years intervening between each appointment shall have passed the Degree of B.Sc. with honours, or, in the event of several candidates obtaining honours, to the candidate whose aggregate marks for the whole subjects of the said degree are the highest; but in the event of no candidate attaining to honours, the Senate may, if they see fit, award the Demonstratorship to the candidate who shall stand highest in the list, provided his average of marks over all the said subjects is not less than 70 per cent., but any candidate who fails to obtain at least 70 per cent. of marks in the Department of Geology shall *eo ipso* be disqualified to hold the Demonstratorship.

2. The three years' tenure of office shall be subject to the condition that the incumbent discharges the duties of the office to the satisfaction of the Senate, who have power "to deprive any Demonstrator of his stipend, or a part thereof, should they at any time become dissatisfied with his conduct or his ability to carry out the duties of his office, or with the character of his lectures, or for any other reason they may consider sufficient," the Demonstrator having the right of appeal to the University Court in the event of such deprivation.

3. The duties of the Demonstrator shall be:—

(1) To deliver two Courses of Lectures—twenty in the winter, twenty in the summer session—(a) on Mineralogy and Petralogy, or (b) on Palæontology, or (c) on Physical Geography. These Lectures to be accompanied by Demonstrations on specimens selected from the Hunterian collections with the consent of the Keeper.

(2) To give Field Demonstrations of Geology and Petralogy, under the direction of the Professor of Natural History (or of Geology when that Chair shall be founded).

(3) To carry on original work in any department of Geological Science which he may select, obtaining therein such assistance by specimens as the Keeper of the Museum shall find it in his power to give.

4. These Courses of Lectures may be attended (*a*) by matriculated students of Geology, free; (*b*) by any matriculated student not a member of the class of Geology, on payment to the Demonstrator of a fee of £1 1s. for each course, or such higher fee as the University Court may fix; (*c*) by any member of the Geological Society of Glasgow on payment of five shillings in lieu of matriculation fee for the winter or summer session, in addition to the authorized class fee.

5. In the event of no appointment being made, or of the Demonstrator resigning, retiring, or being deprived, the revenue accruing during the period of vacancy shall be added to the capital, and the annual income thereof to the stipend payable to the Demonstrators.

The first appointment was made in April, 1889; the next in ordinary course should have been made in April, 1892, on the results of the examinations for B.Sc., held between May, 1889, and April, 1892, but the only eligible candidate could not accept appointment in consequence of his having received another appointment.

*Demonstrator*—ROBERT BUCHANAN, B.Sc.

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#### GIFFORD LECTURESHIP ON NATURAL THEOLOGY.

This Lectureship, as well as similar Lectureships in the other Scottish Universities, was founded in 1887 in accordance with the Trust Disposition and Settlement of the late Adam Gifford, sometime one of the Senators of the College of Justice, Scotland. Lord Gifford directed his Trustees to pay over to the Senatus Academicus of the University of Glasgow the sum of Twenty Thousand Pounds for the purpose of establishing a Lectureship or Popular Chair for promoting, advancing, and diffusing the study of Natural Theology, in the widest sense of that term—in other words, “the Knowledge of God, the Infinite, the All, the First and Only Cause, the One and the Sole Substance, the Sole Being, the Sole Reality, and the Sole Existence, the Knowledge of his Nature and Attributes, the Knowledge of the Relations which men and the whole universe bear to Him, the Knowledge of the Nature and Foundation of Ethics or Morals, and of all Obligations and Duties thence arising.” The Senate are the Patrons. The Lecturer is

appointed for a period of two years and no longer, but the same Lecturer may be reappointed for other two periods of two years each, provided that no one person shall hold the office of Lecturer in this University for more than six years in all. The Lecturer is subjected to no test of any kind, and he is not required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind. The Founder expressed a wish that the subject should be treated as a strictly natural science, like astronomy or chemistry. Matriculated Students and others may attend the Lectures.

1888. Professor Max Müller.

1892. Principal Caird, D.D., LL.D.

1893. Professor WILLIAM WALLACE, M.A.

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M'CALLUM CELTIC LECTURESHIP.

The late Rev. Archibald Kelly M'Callum, LL.D., by his holograph will, dated 8th March, 1881, to which were attached three codicils (the last dated 27th January, 1892), directed his Trustees, among other purposes, to devote an annual sum to a Lectureship, or a course of not fewer than fifteen Lectures, on Celtic Literature. He left detailed directions as to certain subjects which were to be among those discussed. The Lecturer will be appointed by the Senate for a period of three years, and will be eligible for re-election after a subsequent appointment for three years has been made. Matriculated students and others may attend the lectures. Dr. M'Callum also directed that his library should be handed over to the University as a nucleus for a Celtic Library for the use of the Lecturers and such students as may attend the Lectures, and any others interested in Celtic literature. The Library is to be kept separate and designated "The Celtic Lectureship Library," the sum of £10 to be annually paid by the Trustees towards making additions thereto.

*V.—WOMEN'S DEPARTMENT.**QUEEN MARGARET COLLEGE.*

In February, 1892, the Universities Commissioners issued an Ordinance (No. 18), empowering the Scottish University Courts to make provision within the Universities for the instruction of women, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. The Council of Queen Margaret College having considered the provisions of this Ordinance, came to the conclusion that the purpose for which the College had been instituted would be best served by making over their work to the University of Glasgow. They, accordingly, with the concurrence of Mrs. Elder, the proprietrix of the buildings and grounds hitherto occupied by the College, offered to transfer to the University Court these buildings and grounds, and the endowments (present and prospective), on condition that these should be devoted to the establishment and maintenance of University Classes for women exclusively. The University Court, after consultation with the Senate, having resolved to exercise the power conferred by Ordinance No. 18, and to provide University instruction for women mainly by the institution of separate classes, agreed to accept the offer made by Queen Margaret College, and remitted to a Committee to take the necessary steps for completing the transfer. In virtue of this arrangement the teachers in Queen Margaret College were appointed by the University Court, and the students in Session 1892-93 were admitted matriculated students of the University. In 1893 the College was dissolved, and the funds were handed over to the University Court, but the name "Queen Margaret College" survives as designating the part of the University buildings and grounds which is devoted to the education of women.



# QUEEN MARGARET COLLEGE.

The Classes in Queen Margaret College will meet as follows, daily, unless otherwise specified :—

## Winter Session, 1894-95.

### I.—ARTS.

#### MONDAY, 22ND OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Latin, Class I.,</i> . . . . .	9.45 a.m., . . . . .	£3 3	} PROF. RAMSAY, Mr. John Brown, and Mr. D. Rankin.
<i>Class II.,</i> . . . . .	3 p.m., . . . . .	3 3	
<i>Greek, Class I.,</i> . . . . .	8.45 a.m., . . . . .	3 3	} PROF. MURRAY and Mr. G. Macdonald.
<i>Class II.,</i> . . . . .	2 p.m., . . . . .	3 3	
<i>English Language and Literature,</i> . . . . .	12 noon, . . . . .	3 3	{ PROF. BRADLEY and Assistant.
<i>French Language and Literature,</i> . . . . .	3 p.m. on Tues., Wed., Thurs., and Fri., 11 a.m. on Saturdays,	3 3	
<i>German Language and Literature,</i> . . . . .	11 a.m., . . . . .	3 3	Dr. A. Tille.
<i>Logic and Metaphysics,</i> . . . . .	11 a.m., . . . . .	3 3	{ PROF. VEITCH and Dr. R. M. Wenley.
<i>Moral Philosophy,</i> . . . . .	10 a.m., . . . . .	3 3	
<i>Political Economy (Half Course),</i> . . . . .	. . . . .	2 2	Dr. Smart.
<i>Mathematics, Class I.,</i> . . . . .	8.45 a.m., . . . . .	3 3	{ PROF. JACK and Mr. Lamont.
<i>Class II.,</i> . . . . .	2 p.m., . . . . .	3 3	
<i>Natural Philosophy,</i> . . . . .	3 p.m., . . . . .	4 4	PROF. BLYTH.
<i>Physical Laboratory,</i> . . . . .	Sat., 10 a.m. to 12 noon,		
<i>Chemistry,</i> . . . . .	12 noon, . . . . .	3 3	} Mr. T. Gray.
<i>Chemical Laboratory,</i> . . . . .	10 a.m. to 1 p.m., . . . . .	3 3	
<i>Zoology (in Summer),</i> . . . . .	. . . . .	{ PROF. YOUNG and Mr. J. Rankin.	
<i>Botany (in Summer),</i> . . . . .	. . . . .	Mr. J. C. Willis.	

### II.—MEDICINE.

#### MONDAY, 22ND OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Zoology</i> (in Summer), . . . . .	. . . . .	{	PROF. YOUNG and Mr. J. Rankin.
<i>Botany</i> (in Summer), . . . . .	. . . . .		Mr. J. C. Willis.
<i>Chemistry</i> , . . . . .	12 noon, . . . . .	3 3 <sup>1</sup>	{ Mr. T. Gray, B.Sc.
<i>Chemical Laboratory</i> , . . . . .	10 a.m. to 1 p.m., . . . . .	3 3	
<i>Practical Chemistry</i> , . . . . .	10-12, Wed. and Thurs., . . . . .	3 3	
<i>Physics</i> , . . . . .	3 p.m., Mon., Wed., and Fri., . . . . .	3 3 <sup>1</sup>	{ PROF. BLYTH.
<i>Physical Laboratory</i> , . . . . .	10-12, Saturdays,		

<sup>1</sup> Fee for a Second or subsequent Session, £2 2s.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Anatomy, Junior,</i> . . . .	10 a.m., . . .	3 3 <sup>1</sup>	Dr. T. H. Bryce and Dr. Pringle.
<i>Senior,</i> . . . .	3 p.m., . . .	3 3 <sup>1</sup>	
<i>Practical Anatomy,</i> . . . .	9 a.m. to 4 p.m., . . .	3 3	
<i>Physiology,</i> . . . .	2 p.m., . . .	3 3 <sup>1</sup>	PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Materia Medica,</i> . . . .	12 noon, . . .	3 3 <sup>1</sup>	
<i>Pathology, Systematic,</i> . . . .	8 a.m., . . .	3 3 <sup>2</sup>	Dr. C. O. Hawthorne. Dr. Lindsay Steven.
<i>Surgery,</i> . . . .	4 p.m., . . .	3 3 <sup>2</sup>	
<i>Clinical Surgery,</i> . . . .	9 a.m. (see below), . . .	3 3 <sup>2</sup>	Dr. W. J. Fleming. Dr. J. Wallace Ander- son.
<i>Practice of Medicine,</i> . . . .	9 a.m., . . .	3 3 <sup>2</sup>	
<i>Clinical Medicine,</i> . . . .	11 a.m. (see below), . . .	3 3 <sup>2</sup>	
<i>Midwifery,</i> . . . .	12 noon, . . .	3 3 <sup>2</sup>	PROF. CAMERON and Assistant.

## Summer Session, 1895.

## MEDICINE.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Botany,</i> . . . .	11 a.m., . . .	£3 3 <sup>1</sup>	Mr. J. C. Willis.
<i>Botanical Laboratory,</i> . . . .	. . . .	. . .	
<i>Zoology,</i> . . . .	9 a.m., . . .	3 3 <sup>1</sup>	PROF. YOUNG and Mr. J. Rankin.
<i>Practical Anatomy,</i> . . . .	9 a.m. to 4 p.m., . . .	2 2	
<i>Practical Pharmacy,</i> . . . .	12 noon, . . .	3 3 <sup>1</sup>	Dr. T. H. Bryce and Dr. Pringle.
<i>Practical Physiology,</i> . . . .	2 p.m., . . .	3 3 <sup>1</sup>	
<i>Forensic Medicine,</i> . . . .	12 noon, . . .	3 3 <sup>1</sup>	PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Practical Pathology,</i> . . . .	9 a.m., . . .	3 3	
<i>Insanity,</i> . . . .	{ 12 noon, University, and at Gartnavel, 2 days weekly }		3 3 Dr. Simpson and Dr. Dalziel.
			Dr. Lindsay Steven.
			Dr. Yellowlees.

HOSPITALS.—Royal Infirmary—First Year, £10 10s.; Second Year, £10 10s.; 6 months, £6 6s.; 3 months, £4 4s. Royal Hospital for Sick Children—12 months, £1 1s. Glasgow Maternity Hospital—£2 2s.

## CLASS ARRANGEMENTS.

The courses and arrangements for the classes in Arts and Medicine are similar to those of the classes for men, with the exception of English, French, German, and Natural Philosophy, the arrangements for which are as follows:—

## ENGLISH LANGUAGE AND LITERATURE.

The work of the class will comprise the following subjects:—1. The History of English Poetry from Cowper to Keats. 2. English Composition. 3. The Outlines of English Philology. 4. (a) Shakespeare's *Hamlet*; (b) *Eighteenth Century Essays*, ed. Dobson.

<sup>1</sup> Fee for a Second or subsequent Session, £2 2s.

<sup>2</sup> Fee for a Third or subsequent Session, £2 2s.

Subject 1 will be taken on Tuesdays, Thursdays, and alternate Wednesdays at 12 noon, and the class which meets on these days will be called the Literature Class. Subjects 2, 3, and 4 will be taken on Mondays, Fridays, and alternate Wednesdays, at 12 noon, and the class which meets on these days will be called the Language Class. Students who take English for purposes of graduation must attend both classes, but students who do not intend to graduate may take the Language Class alone, or (if they have attained the age of 18 years) the Literature Class alone. The age limit may be dispensed with on certain conditions. The fee for the Language Class or the Literature Class alone is £2 2s.

For further details as to the work of these classes, and as to the Honours Class, see pp. 60, 61.

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## FRENCH LANGUAGE AND LITERATURE.

The arrangements for this course are as follows:—The lectures on the historical and critical study of French Literature will be given on Tuesdays and Thursdays, 3–4, and on alternate Saturdays, 11–12. The period embraced by this year's course extends from the origin of the language to the middle of the 17th century.

The lectures on the French Language will be held on Wednesdays and Fridays, 3–4, and on alternate Saturdays, 11–12. The subjects selected for Session 1894–5 are the elucidation of the text of Taine's *Voyage aux Pyrénées*; the study of the Romance Language, and, more particularly, of old French, for which *la Chanson de Roland*, second part, will serve as a text-book. The business of the class will further comprehend fortnightly exercises in French Composition, which will be returned corrected and criticized, as also two original essays in French. The entire work will be carried on in French.

Written Examinations in connection with each branch of study. Fleury's *Histoire de la Littérature Française*; Staaff's *Cours de Littérature Française*, Vols. I. and II.; and Bartsch's *Chrestomathie de l'Ancien Français*, may be consulted.

Students who take French for purposes of graduation must attend both classes, but students who do not intend to graduate

may take the Language Class alone or the Literature Class alone. The fee for the Language Class or the Literature Class alone is £2 2s.

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## GERMAN LANGUAGE AND LITERATURE.

The work of the class will comprise the following subjects :—

A. *Language*.—Fifty lectures in English. Higher New-High-German Syntax on an historical and comparative basis, Idioms, Metre and Composition. Text-book: Brandt, *A Grammar of the German Language*. Special study will be devoted to Lessing's *Minna von Barnhelm*, *Emilia Galotti*, *Nathan der Weise*; Goethe's *Faust* (I. and II.), *Iphigenia auf Tauris*, *Dichtung und Wahrheit*, *Lyrics*; Schiller's *Wallenstein*, *Wilhelm Tell*, *Maria Stuart*, *Ballads*. Essays will be written every fortnight.

B. *Literature*.—Fifty lectures in German. An historical and critical study of the literature of the time of Lessing, Goethe, and Schiller (1750-1832), including Gellert, Klopstock, Wieland, Lessing, Herder, the Göttingen Poets, the *Sturm und Drang* Poets, Goethe, Schiller. Text-book: W. Wackernagel, *Geschichte der deutschen Literatur*, Basel, 1894, Vol. II.

The lectures under A will be given on Mondays, Fridays, and alternate Wednesdays, at 11 a.m., and the class which meets on these days will be called the Language Class. The lectures under B will be given on Tuesdays, Thursdays, and alternate Wednesdays, at 11 a.m., and the class which meets on these days will be called the Literature Class. Students who take German for purposes of graduation must attend both classes, but students who do not intend to graduate may take the Language Class alone or the Literature Class alone. The fee for the Language Class or the Literature Class alone is £2 2s.

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## NATURAL PHILOSOPHY (PHYSICS).

This Class will meet daily at 3 p.m., except Saturdays; also, for practical work, on Saturdays, 10 to 12. The Course will include—

(1) Experimental Physics (Properties of Matter, Sound, Heat, Light, Magnetism, Static Electricity, Voltaic Electricity, Electro Magnetism), Mondays, Wednesdays, and Fridays. The lectures will be fully illustrated by experiment.

(2) Theoretical Mechanics (Elementary Kinematics, Elementary Dynamics), Tuesdays and Thursdays.

(3) Practical Physics, Saturdays, 10 to 12. The students will work practically in the Laboratory, and will be taught the construction and use of physical apparatus generally, and will also be required to employ the various instruments, so as to verify natural laws and obtain numerical results.

Students intending to take a Degree in Arts must take the whole course. The requirements of students preparing for Degrees in Medicine will be met by the first division of the course, and by attending three days weekly, viz., Mondays, Wednesdays, and Fridays.

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## VI.—LIBRARIES, MUSEUM, BOTANIC GARDEN.

### UNIVERSITY LIBRARY.

The University Library was founded in the fifteenth century. It contains an extensive and valuable collection of books. The Library is under the management of a Committee appointed annually from the members of Senate. The Librarian is elected by the Senate.

The Library is always increasing by donations and by a grant of £707 per annum, formerly paid by the Treasury, as compensation for the loss of the Stationers' Hall privilege, and now received from the University Court.

During recent years the Library has acquired several valuable collections. Amongst these the most important are the following:—

The Collection bequeathed to the University by the late W. EUNG, ESQ., amounting to about 15,000 volumes. It contains many books printed in the fifteenth and sixteenth centuries, illustrated books, English literature, Classics, above 2,000 Bibles, and a very large number of Psalm and Hymn books.

The Library of the late SIR WILLIAM HAMILTON, Professor of Logic in the University of Edinburgh, amounting to about 8,000 volumes. This Collection, which consists principally of Classics, editions of Aristotle, and treatises on Logic and Metaphysics, was purchased by private subscription and presented to the University. A list of the Subscribers was inserted in the Calendar for 1879-80.

The WALKER-ARNOTT Botanical Library of 970 volumes.

The Musical Library of the late THOMAS L. STILLIE, Esq., numbering 760 volumes. It contains the works of the chief composers, many of them in score, and an extensive series of modern operatic compositions, continental and English.

The collection of books on Palestine, which belonged to the late DR. A. B. M'GRIGOR, consisting of 655 volumes of works, illustrating the natural and civil history, topography, and antiquities of Jerusalem and the Holy Land. This collection was presented along with 83 volumes, containing about 1,000 pamphlets, by Alexander M'Grigor, Esq.

The library of the REV. A. K. MACCALLUM, LL.D., containing over 3000 volumes, bequeathed to the University—along with an annual sum of £10 to be spent on its increase—as the nucleus of a Celtic library.

The works on Mining belonging to the late ALEX. MACDONALD, Esq., M.P.; works on Engineering from the libraries of the late Professors LEWIS GORDON and MACQUORN RANKINE; works on Oriental literature from the library of the late Professor WEIR; a large collection of medical works, theses, and pamphlets, from the late Professor ALLEN THOMSON; 800 volumes of general literature from the library of the late F. A. ECK, Esq.; over 1,000 volumes—selected from the library of the late JAMES HOTSON, merchant—presented by DR. THOMAS REID; and numerous works of reference for the Reading Room from the late DR. A. B. M'GRIGOR.

Wall or table cases were given by William S. Dixon, Esq. (1); William Euing, Esq. (1); Professor Rainy, M.D. (1); Professor Sir James Roberton, LL.D. (2); and Alex. White-law, Esq., M.P. (2).

The following are the principal regulations relative to the use of the Library by the various classes of readers:—

Each Member of the Senatus Academicus is entitled to have in his possession at one time twenty-five volumes, but not more.



Retired Principals and Professors are entitled to have in their possession at one time ten volumes, but not more.

Any Assistant to a Professor, or Examiner for Degrees, to whom the Senatus Academicus shall think it expedient to grant the privileges of the Library, is entitled to have in his possession at one time ten volumes, but not more.

Each Member of the General Council is entitled, in each year in which he shall have paid a subscription to the Library of Ten Shillings and Sixpence, to have in his possession at one time four volumes, but not more. The annual subscription may be compounded for by a single payment of Five Guineas. In the case of a Member of the General Council, the year commences at 15th October.

Every person in each of the foregoing classes is entitled to retain each book for one month from the date of borrowing during the Winter Session, and for two months from the date of borrowing during Summer, and is further, after the expiration of such period, entitled to retain each book until the annual period of inspection, unless notice shall be received from the Librarian requiring the return of such book.

Every Matriculated Student enrolled in a Class is entitled, on lodging with the Librarian a deposit of One Pound, to have in his possession three volumes (in Summer, four volumes) at one time, and to retain any book for two weeks (in Summer, four weeks) from the date of borrowing; and further, to re-borrow any book for successive periods of two weeks (in Summer, four weeks), unless application for it shall, in the meantime, have been made by another person entitled to the use of the Library.

No reader is entitled to borrow books in more than one capacity, *e.g.*, as a Student and as a Member of the General Council.

If any book, by whomsoever borrowed, be not returned within three days after notice shall be sent by the Librarian requiring the return of such book, a penalty of One Shilling a volume is incurred, and a further penalty of Sixpence a volume for each day so long as the book is not returned, until the full amount of the fine shall exceed the sum for which the book can be replaced in the Library.

The Librarian is entitled to have in his possession at one time ten volumes, but not more; and any Assistant-Librarian, to whom the Senatus Academicus shall think it expedient to grant the privilege of the Library, shall be entitled to have in his possession at one time four volumes, but not more; provided always that all books borrowed by the Librarian or by any such Assistant-Librarian as aforesaid shall be duly and regularly entered in the ordinary Record of the Library as being borrowed, in the same manner as books borrowed by other persons.

The Senatus Academicus may grant the use of the Library to such extent, and on such conditions as they shall think expedient, to persons for purposes of literary research, and that whether such persons shall be members of the University or not; provided always that no such privilege shall in any case be granted except by Minute of the Senatus

specifying the grounds on which the grant is made, and the conditions which have been attached thereto, an extract of which Minute shall be forthwith transmitted to the University Court; provided also that all such persons shall pay a Subscription to the Library of Ten Shillings and Sixpence for the current year.

All grants of the use of the Library made by the Senatus Academicus, in pursuance of the preceding section, shall terminate at the annual period of inspection of the Library, but shall be renewable under like conditions, if again applied for on the expiration of that period.

Books belonging to the Library must not be privately transferred from one reader to another; and must not be lent to Graduates or Students who are not readers.

The Librarian is strictly forbidden to send books by a public conveyance, or do more than deliver books over the counter to a person properly authorized to receive them; and he is empowered, if he think fit, to decline to give out books to any one other than the reader applying in person.

The following classes of books are not given out except on an order signed by three members of Committee:—Manuscripts, Specimens of early typography, Works containing valuable engravings, Dictionaries and other works of reference (unless there is a duplicate in the Library), Maps of a larger size than 20 inches in height and breadth, loose Maps, unbound Music, Works with loose plates or loose letterpress, Rare Books, or Books in any way difficult to replace, Pamphlets, stitched Parts of large works, or Books not sufficiently protected by the binding.

A general inspection of the Library, and of the Record of the borrowing and returning of the books, takes place annually in April, beginning with the 7th and continuing for seven lawful days thereafter.

During the period of the annual inspection, the Library is closed, and all works whatsoever, and by whomsoever borrowed, must be returned to the Library before the commencement of such period, under a penalty of not less than One Shilling a volume; and in the event of any volume not being returned before the expiration of one week after the last day of the inspection, the fine is repeated weekly, until such volume is returned, or until a copy of the work of the same edition, and of equal value, shall at the expense of the borrower be placed in the Library in its stead.

So long as any person shall remain in possession of a book which he is not entitled to retain, or shall allow any fine incurred by him to remain unpaid, the right of such person to borrow or retain any books whatsoever, or to exercise any of the privileges of the Library, is suspended, and remains in abeyance.

Each person returning a book to the Library must see that the book is marked as returned opposite the corresponding entry in the Receipt Book. For every borrower is liable to replace any volume entered in the Receipt Book in his name and not so marked as returned.

The Librarian is instructed forthwith to report to the Library Com-

mittee all cases in which he shall find that books have been mutilated, disfigured by writing on the margin, or otherwise injured while in the possession of readers; and persons guilty of such offences shall be liable to replace the injured books, and shall be fined or suspended from the privileges of the Library at the discretion of the Committee.

All readers borrowing books from the Library must obtain them from, and return them to, the Assistant-Librarians in the ante-room on the days and during the hours when the Library is open.

Persons other than students who wish to consult books in the Library will be accommodated in the First Bay of the Lower Hall. Each person must enter his name and address, and the title of the work or works which he desires to consult in a book kept for that purpose.

Visitors on giving their names will be conducted over the Library by an attendant. They are not permitted to enter the Reading-Room during the hours when it is open to students.

No person, except Members of Senate, shall otherwise be admitted to the interior of the Library without the special permission of the Curator or Librarian.

All persons, whether readers or visitors, are strictly prohibited from entering the Bays, or taking the books from their places on the shelves.

The Library is open for giving out and receiving back books every lawful day during the Winter Session, from 11 A.M. till 2.30 P.M., except the Christmas and other Holidays specially appointed by the University, when it remains closed, and on Saturdays, when it is open from 11 A.M. till 1 P.M. During the Summer it is open on Mondays, Wednesdays, and Fridays, from 11.30 A.M. till 2 P.M.

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### CATALOGUES.

An Author and Subject Index containing the chief books likely to be interesting or useful to Students, and forming a fairly complete guide to the accessions in English of the twenty years preceding 1887, may be purchased by readers in the Library at the price of One Shilling.

Students and Graduates who are engaged in special research will, on application to the Librarian, have access to the Classified Catalogues, which include also the older literature and works in foreign languages. These Catalogues have been arranged by Professor Dickson, Curator of the Library, and the expenses incurred by him in connection with their preparation have been defrayed by the late Dr. A. B. M'Grigor.

*READING-ROOM.*

In connection with the Library, a Reading-Room, provided with a special collection of books of reference for the use of Matriculated Students, is open for readers, Saturdays and holidays excepted, during the Winter Session from 9 A.M. till 3 P.M., and during the Summer Session from 9 A.M. till 2 P.M.

The Room is primarily intended for readers consulting the books of the Special Collection ; but so far as the accommodation will allow, students may make use of it for individual private study. The following are the principal rules applicable to the Room :—

Every Matriculated Student, who shall at the beginning of the Session or thereafter record (in a book kept by the Librarian) his desire to use the Reading-Room in accordance with the rules for consulting of books or private study, will receive a voucher entitling him to admission. No student will be admitted to the use of the Room without producing his voucher.

Every such student shall on entering apply for a tally entitling him to a seat, shall use it only for the table indicated thereon, and shall personally return it to the Assistant in charge. All readers are required to take at once the seats assigned to them, to abstain from talking, whispering, or any other form of distracting or disturbing others, and to enter and leave the room (and vestibule) with as little noise as possible. Readers shall exhibit their tallies when asked ; and shall at once give their names and matriculation numbers, if they shall be requested to do so.

Each student, desirous of borrowing books from the Special Collection in the Vestibule, is required to fill up one of the receipt papers with his name, matriculation number, and the title of the book or books wanted, and to present it to the Assistant-Librarian in charge. Students are not permitted to have the use of more than two volumes at one time. The books received are to be used only in the Reading-Room, and are to be returned by the receiver himself into the hands of the Assistant-Librarian. The return of books by those who have to leave the room at the end of any hour is to be made not later than five minutes before that time, and during that interval no books will be given out.

Books of reference not included in the Special Collection, but contained in the General Library, may be obtained for consultation in the Reading-Room on presenting a paper with the name and matriculation number of the reader making the request, and the title of the book wanted, to the Assistant-Librarian in the Vestibule.

The Assistant-Librarian in charge is instructed to report at once to the Library Committee the name of any student transgressing the rules. N.B.—The south corridors have been enclosed and provided with benches for the use of *other* students in the intervals of their classes.

*Donations to the University Library.*

List of Donations from 1st March, 1893, to 28th February, 1894:—

- Académie des Sciences de Cracovie.—Bulletin international. 1893.  
 Accademia dei Lincei, Roma.—Atti. Serie 4<sup>a</sup>. Memorie. Classe di scienze morali. IX. 1, X. 1. 1892-93.—Serie 5<sup>a</sup>. Rendiconti. Classe di scienze fisiche. II. 1893. Classe di scienze morali. II. 1893.  
 Accademia delle Scienze fisiche e matematiche di Napoli.—Rendiconto. Serie 2<sup>a</sup>. VII. 1893.  
 Accademia Pontaniana.—Atti. XXIII. 1893.—Annuario pel 1894.  
 The Admiralty.—Greenwich observations, 1890.—Greenwich spectroscopic results, 1890.—Time of swing of the Indian invariable pendulums, 1889.—Annals of the Cape Observatory. I. 2, 3, 4.  
 Agent-General for Victoria.—Statistical register of the Colony of Victoria. 1891.  
 Asiatic Society of Bengal.—Bibliotheca Indica. New Series. Nos. 821, 823-833.  
 Australasian Association for the Advancement of Science.—Report of the fourth meeting. 1892.  
 Australian Museum, Sydney.—Catalogue of Australian mammals. 1892.—Records, II. 4.—Catalogue of the marine shells. Part III.—Report of Trustees for 1892.  
 Berwickshire Naturalists' Club.—Proceedings. XIII. 2.  
 Biblioteca Nazionale Centrale di Firenze.—Bollettino delle pubblicazioni italiane. 171-193.  
 Birmingham Philosophical Society.—Proceedings. VIII. 1891-93.—Report, 1892-93.  
 Calendars have been received from the following institutions:—Aberdeen University; Belfast Queen's College; Bombay University; Bradford Technical College; Brown University, U.S.; Calcutta University; California University; Canterbury College, New Zealand; Cape of Good Hope University; Charing Cross Hospital; Chicago University; Coimbra University; College of Preceptors, London; Cornell University; Dalhousie University, Halifax; Durham School of Science; Durham University; Edinburgh University; Glasgow and West of Scotland Technical College; Imperial University, Tokyo; John Hopkins University; McGill University, Montreal; Mason Science College, Birmingham; Melbourne University; New Zealand University; Otago University; Owen's College, Manchester; Padua University; Panjab University; Pharmaceutical Society; Presbyterian College, Halifax; Queen's College, Cork; Queen's University, Kingston; Royal College of Surgeons of England; Royal University of Ireland; St. Petersburg University; St. Thomas Hospital; Sydney University; Technische Hochschule zu Aachen; Toronto University; Trinity College, London; Turin University; University of Norway; University College, Bristol; University College, Dundee; University College, Liverpool; University College, London; University College, Nottingham; University College of North Wales; University College of Wales; Utrecht University; Vermont University; Victoria University, Canada; Victoria University, Manchester; Vienna University; Yale University; Yorkshire College, Leeds.  
 Cambridge Philosophical Society.—Proceedings. VIII. 1, 2.  
 Canadian Institute.—Transactions. No. 6.—First annual report, 1892-93.  
 Chemical Society.—Journal. Nos. 364-376.—Abstract of proceedings. Nos. 121-133.  
 Cincinnati Chamber of Commerce.—Forty-fourth annual report, 1891-92.  
 Clinical Society of London.—Report on incubation and contagion. 1893.—Transactions. XXVI.  
 Cornell University.—Bulletin. Nos. 32-34.  
 Department of Science and Art.—Prospectus of College of Science, 1893-94.—Directory, 1893.—Fortieth report, 1893.—Art examination papers, 1893.—Drawing and manual instruction in elementary schools. 1893.—Returns of expenditure on technical instruction, 1893.—Prospectus of Whitworth's scholarships, 1893.—Prospectus of National Art Training School, 1893.—Catalogue of the paintings, manuscripts, etc., in the Forster Collection. 1893.—Examination papers for science schools, 1893.—Catalogue of the Gallery of British Art, 1893.—Japanese Art. 1893.—Catalogue of Education Library, 1893.—Calendar, history, and regulations, 1894.  
 Fishery Board for Scotland.—Eleventh annual report.  
 General Assembly of the Church of Scotland.—Reports on the schemes. 1893.  
 Geological and Natural History Survey of Canada.—Contributions to Canadian palæontology. I. 4.—Catalogue of section one of the Museum. 1893.—Ferrier,



- Catalogue of a stratigraphical collection of Canadian rocks. 1893.—Annual report, 1890-91.
- Geological Survey of India.—Records. XXVI.
- Government of Netherlands India.—Observations made at the Batavia Observatory. 1892.—Rainfall in the East Indian Archipelago. 1891.
- Glasgow Archaeological Society. Transactions. N. S. II. 2.—Report for 1892-93.
- Glasgow Pathological Society.—Transactions. II. 1886; IV. 1891-93.
- Harvard University.—Annual reports, 1891-92.
- Imperial University, Tokyo.—Journal of the College of Science. V. 3, 4; VI. 1-3. —Mittheilungen aus der Medicinischen Facultät. II. 1.
- Institute of Brewing.—Transactions. VI. 5-7; VII. 1-3.
- Institution of Civil Engineers.—Minutes of proceedings. CXI.-CXIV. 1892-93.—Charter, by-laws, and list of members.
- Institution of Engineers and Shipbuilders.—Transactions. XXXVI.
- Institution of Naval Architects.—Transactions. XXXIV. 1893.
- James Paton, F.L.S.—Report of Kelvingrove Museum and Corporation Galleries of Art for 1892.
- James Murray's Asylum, Perth.—Excelsior. Nos. 10, 12.—Sixty-sixth report.
- John Hopkins University.—Meriwether, History of higher education in South Carolina. 1889.—Bibliographia Hopkinsiensis. I.-III.—Lauer, Church and state in New England: and 23 other dissertations.—Scott, Repudiation of State debts.—Kellogg, Morphology of lamellibranchiate mollusks.—Russell, Bacteria in relation to vegetable tissue: and 26 other dissertations.—University circulars. Nos. 101-108.
- Lloyds' Register of Shipping.—Register from 1st July, 1893 to 30th June, 1894.—Rules and regulations, 1893-94.
- Local Government Board.—Report of the Medical Officer for 1891-92.—Papers on epidemic influenza, 1890-92.—Report on enteric fever in the Tees Valley, 1893.
- Lords of H. M. Treasury.—Exchequer rolls of Scotland. Vol. XIV.—Journals of the House of Lords. 124.—Journals of the House of Commons. 147.—Acts of Parliament: Public, Local, Private. 1893.
- M'Gill University, Montreal.—Annual convocation for degrees in arts, 1893.
- Manchester Literary and Philosophical Society.—Memoirs and proceedings. VII. VIII. 1.
- Mineralogical Society.—Mineralogical magazine. X. 46, 47.
- Periodicals per Prof. Dickson, D.D.—Nineteenth century. Nos. 181-192.—The Academy. Nos. 1026-1090.—Church quarterly review. Nos. 65-69.—Critical review. II.—The Thinker. II.
- Pharmaceutical Society.—Journal. 1893.
- Physical Society of London.—Proceedings. XII. 1-3.
- Professor J. Harvard Biles.—On the strength of large ships.
- Professor Caird, D.C.L.—White, Life in Christ. 1878.—Poisson, Traité de mécanique: and 39 other vols.
- Professor Dickson, D.D.—Paton, British history and Papal claims. 2 vols. 1893.—Saphir, Divine unity of Scripture. 1892.—Paspates, The great palace of Constantinople. 1893.—Palestine Exploration Fund. The city and the land. 1892.—Anton, Kilsyth: a parish history. 1893.
- Professor Ferguson, LL.D.—Bibliographia Paracelsica. Part V.
- Professor Jack, LL.D.—Proceedings of the London Mathematical Society. Nos. 433-474.
- Professor A. Macfarlane, D.Sc., Texas.—The imaginary of algebra. 1892.—Fundamental theorems of analysis generalized for space. 1892.—On the definitions of the trigonometric functions.
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### *DIVINITY HALL LIBRARY.*

This Library is set apart for the special use of students in Divinity. It contains an extensive collection of Theological works. It is supported chiefly by an annual grant from the University Court of Seven Shillings for each student attending the Divinity classes.

The Librarian is elected annually by the students attending the Hall.

### *HUNTERIAN MUSEUM.*

This Museum was founded by the eminent William Hunter, M.D., who was born in 1718, at Cantieswell or at Long Calderwood, in the Parish of East Kilbride, Lanarkshire. By his will, dated 1783, he bequeathed to the Principal and Professors of

the College, and their successors in office, his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens, and archæological relics, and appropriated £8,000 for the erection of a building for their reception and preservation.

The building erected in 1804 became the property of the Union Railway Company, as explained at page 28. But accommodation has been provided for the collections in the new buildings at Gilmorehill. The Museum occupies the north side of the eastern quadrangle, and consists of two halls, the upper of which is galleried. Visitors desirous of consulting in the Museum should, if possible, arrange to come between 2 and 4 P.M. Numismatists desirous of consulting the cabinet of medals should communicate with the Keeper a few days before the date of their proposed visit.

The Museum is now open to the public from 11 to 3 in winter, 11 to 4 in summer; admission sixpence. Catalogues of the Library, Medals, and Minerals are in course of preparation.

The Keeper of the Museum, by present custom the Professor of Natural History, is appointed by the Trustees, who, in terms of Dr. Hunter's will, are the Principal and Professors of the College.

The revenue derived from the admission fee has been hitherto the only fund available for the maintenance and extension of the collection. Donors of specimens are entitled to free admission. Each matriculated student has the privilege of introducing two friends three times during the session.

#### *Donations to Museum 1893-94.*

The following donors have contributed to the Museum during the past year:—

ZOOLOGICAL SPECIMENS.—Mrs. Hugh Blackburn, Roshven; Laurence A. Waddell, M.B., India; Rev. W. A. Soga, M.B., C.M., Kaffraria; Mr. G. Douglas Ross, student; Mr. John Mackay, Hunterian Museum.

MINERALS, FOSSILS, AND GEOLOGICAL SPECIMENS.—Rev. J. Lamb, Old Kilpatrick; Miss E. Cook, Hunterian Museum; William R. Lang, B.Sc., Glasgow; David Ferguson, Esq., M.E., Glasgow; John Smith, Esq., Kilwinning; David Beveridge, Esq., Kilmarnock; Dr. Thomas Young, Manchester; William M. Gray, Esq., London; William Brown, Esq., Crosshill, Glasgow; W. A. Rochling, Esq., New York; John Young, LL.D., F.G.S., Hunterian Museum.

ETHNOLOGICAL SPECIMENS.—H. G. Thorpe, Esq., Glasgow; Mr. G. Douglas Ross, student; Captain Colin Mitchell, Gourock; Mrs. Anderson Watt, Belgrave Terrace, Edinburgh; Dr. William Gemmell, Glasgow.



The most important addition during recent years has been the collection of the late F. A. Eck, Esq., formerly of Hollybush. During a long residence in South America, and afterwards while resident in Britain, Mr. Eck formed a splendid collection of minerals, numbering in all over 3,000 specimens. The minerals of Peru, Chili, Guatemala, New Grenada, Mexico, and California, are richly illustrated, while the European series of over 1,200 specimens is also representative. There are besides a fine series of polished precious stones, and also specimens of the old Mexican and Peruvian Pottery, and of modern carved work. This splendid gift—along with the handsome cabinets in which the specimens are contained—the largest since Miss Brown, of Lanfine, presented in 1875 one half of her late father's mineral collection, is due to the generosity of Mr. Eck's family, who have enjoined that the collection be kept apart and used, so far as possible, to aid the teaching of mineralogy. In February 1888, the Council of the West of Scotland Technical College made over to the Hunterian Museum the Zoological and Ethnological collection of the Andersonian University, later known as Anderson's College, and now merged in the Technical College, the Council requiring the space for illustrations of the lectures given under their direction. The collections, which are of very great value and extent, were largely due to the generosity of the naturalists and merchants of Glasgow, to whom the Hunterian Museum is also under great obligations. The collection of birds formed by the late John Alexander, Esq., Dowanhill, was presented by Messrs. W. J. Chrystal and J. Gibson Fleming.

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### *BOTANIC GARDEN.*

A piece of ground adjoining the old College was for many years set apart as a Botanic Garden, for the use of the Lecturer on Botany; but the great increase of manufactories and other buildings in its vicinity having rendered it unfit for such a purpose, the University, in 1817, agreed to subscribe £2,000 towards the formation of a new Botanic Garden then projected by the citizens of Glasgow, on condition that a Lecture-Room should be erected within it for the exclusive use of the Professor of Botany and his pupils—that every facility should be given them in prosecuting the study of Botany—and that three



Directors of the Institution should be annually appointed by the Faculty of the College, to represent and protect the interests of the University. The Garden to which this agreement referred was completed and opened to the public in 1819. A Lecture-Room, in which the Professor of Botany delivered an annual course of lectures during the summer months, was built; and the collection of plants, from the zeal and ability of the Superintendent, and the favourable situation of Glasgow, had become one of the richest and most valuable in the island. The extension of the town again compelled the removal of the Garden to its present site in Hillhead, at a greater distance from the old College, so that the Professor, while he continued to give in it the practical portions of the course (*Demonstrations*), found it more convenient to deliver his Lectures at the College. The removal of the College to Gilmorehill brought it nearer the Botanic Garden, but the Lecture-Room in the Garden being inadequate for the students attending the course of Elementary Lectures on Botany, and there being no Laboratory, Museum, or Herbarium Room in the Garden, the Professor has continued to deliver his Lectures and to have his Laboratory at the College.

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## VII.—GRADUATION IN THE SEVERAL FACULTIES.

### EXAMINERS.

#### Preliminary Examinations in Arts, Science, and Medicine.

The University Court of each University annually appoints as Examiners such number of Professors or Lecturers in the Faculty of Arts in that University, and such additional Examiners as may be deemed necessary. The preliminary Examinations in Arts, Science, and Medicine are conducted by these Examiners, under the control and supervision of a Joint-Board appointed in January of each year by the several University Courts from among the Examiners, according to a scheme of rotation prescribed in Ordinance No. 13, section IV., as supplemented by Ordinance No. 43, section I. The Joint-Board consists of eight Professors or Lecturers and eight additional Examiners, two Professors or Lecturers and two additional Examiners being appointed by the University Court of each University. It holds office from the first day of February to the thirty-first day of January in the succeeding year, and sits at

each University in rotation in the following order:—Edinburgh (1893-4), Glasgow (1894-5), Aberdeen (1895-6), St. Andrews (1896-7). The Joint-Board first elected held office until 31st January, 1894.

#### Degrees in Arts.

The Examiners for Degrees in Arts are the Professors whose subjects qualify for Graduation in Arts, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

#### Degrees in Science.

The Examiners for Degrees in Science are the Professors whose subjects qualify for Graduation in Science, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

#### Degrees in Medicine.

The Examiners for Graduation in Medicine are the Professors whose subjects qualify for Graduation in Medicine, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary, such provision being made as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

#### Degrees in Law.

The Examiners for the Degree of Bachelor of Laws are the Professors of or Lecturers on the subjects included in the examinations for the said Degree, and additional examiners appointed by the University Court.

The Examiners for the Degree of Bachelor of Law are the Professors of or Lecturers on the subjects included in the examinations for the said Degree, and additional examiners appointed by the University Court.

#### Degrees in Divinity.

The Examiners for the Degree of Bachelor of Divinity are the Members of the Divinity Faculty.

No person is eligible for appointment to the office of additional Examiner, whether for Preliminary Examination or for Degrees in Arts, Science, or Medicine, who is a Professor, Lecturer, or University Assistant or Demonstrator in any Scottish University, and the appointment of any additional Examiner during the currency of his term of office to a Professorship, Lectureship, or to the office of University Assistant or Demonstrator in any Scottish University is held to vacate his office of Examiner. The periods of appointment

of additional Examiners are so adjusted as to secure that all the Examiners shall not vacate their office at the same time ; but no Examiner can be appointed for a longer period than four years, and no person who has held the office of Examiner for a period of three or four years is eligible for reappointment to the office of Examiner in the same University until he has ceased to hold the office of Examiner in such University for not less than one year.

In the event of a vacancy in the office of a member of the Joint-Board, or of an Examiner or additional Examiner in Arts, Science, or Medicine, occurring otherwise than by expiration of his term of office, the person appointed in his room is appointed for the remainder of such term only.

## REGULATIONS FOR GRANTING DEGREES.

### I. GRADUATION IN ARTS.

REGULATIONS APPLICABLE TO ALL WHO HAVE ENTERED ON THEIR ACADEMICAL COURSE SINCE 1ST OCTOBER, 1892.

The conditions on which the Degree of Master of Arts is now conferred are regulated by Ordinance No. 11<sup>1</sup> of the Universities Commissioners (1889), approved by Her Majesty in Council on 28th June, 1892, the principal provisions of which are the following :—

I. The Academical year in each University shall commence on the first day of October. The classes shall meet for the winter session (which shall include not less than twenty teaching weeks) on such day thereafter as the Senatus of each University shall determine ; and shall close not later than the tenth day of the following April.

The University Court of each University shall institute a summer session in such of the subjects or branches of subjects qualifying for graduation in Arts as may be determined by the said Court after consultation with the Senatus. Such session shall commence on such day as the Senatus of each University shall determine, and shall include ten teaching weeks at least. The classes shall be conducted by the Professors, or by Lecturers appointed under Ordinance, General No. 10 (Regulations as to Assistants and Lecturers).

II. The Curriculum for the degree of Master of Arts (M.A.) shall extend over not less than three winter sessions, or two winter sessions and three summer sessions.

### PRELIMINARY EXAMINATION.

III. (1) Before entering on the Curriculum (*subject to the proviso con-*

<sup>1</sup> This Ordinance was printed in full in the University Calendar for 1892-93, pp. 477-485.

tained in *Section IV.*)<sup>1</sup> each Student shall pass a Preliminary Examination in the following subjects :—

1. English.
2. Latin or Greek.
3. Mathematics.
4. One of the following :—Latin or Greek (if not already taken), French, German, Italian, Dynamics.

(2) The examination must be passed in the matters and on the standards hereinafter defined ; but there shall be a higher and lower standard in Latin, Greek, and Mathematics.

Candidates must pass on the higher standard in at least one of these three subjects, and may pass on the lower standard in either or both of the remaining two ; subject always to the conditions relative to attendance contained in *Section IV.* hereof.

(3) English shall include Grammar and Composition, and the outlines of Geography and British History,<sup>2</sup> and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

(4) Latin and Greek shall comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin or Greek. The higher standard shall not be lower than that presently adopted in the examination for a Curriculum of three sessions, or for the Higher Grade Leaving Certificate of the Scotch Education Department, and the lower standard shall not be lower than that presently adopted for the Lower Grade Leaving Certificate of the said Department.

(5) French, German, and Italian shall comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors not previously prescribed, and translation from English into French, German, or Italian ; and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

<sup>1</sup> The words in italics are taken from a supplementary Ordinance No. 44, which was approved by Her Majesty in Council on 28th May, 1894, and will come into force on 1st October, 1894.

<sup>2</sup> The Joint-Board has issued the following directions as to the character of the papers to be set in English :—

English shall include (a) Grammar, (b) Composition, (c) Literature, (d) Geography, and (e) History.

(a) Grammar shall include Analysis, Parsing, Derivation, and Correction of Sentences.

(b) Composition shall include an Essay and Paraphrasing.

(c) Literature shall include a general knowledge of the life and works of the greater writers, and a more special knowledge of the works of two or three of these writers. For October, 1894, Shakespeare's *Merchant of Venice*, and Scott's *Kenilworth* ; for April and October, 1895, Shakespeare's *Julius Cæsar*, and Scott's *Fortunes of Nigel*.

(d) Geography shall include a general knowledge of the Geography of the World, and a special knowledge of the Geography of the British Empire.

(e) History shall include a knowledge of one of the three following periods to be taken in successive years, in the order herein mentioned, namely :—The Outlines of the History of both England and Scotland to the Accession of James VI. (for October, 1893) ; from the Accession of James VI. to the Union of the Kingdoms (for April and October, 1894) ; from the Union of the Kingdoms to the Reform Bill of 1832 (for April and October, 1895).

(6) Mathematics on the lower standard shall comprise—(1) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (2) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (3) Geometry—Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration. The Joint-Board has directed that each question in Geometry shall consist of two parts, of which one shall be an easy deduction or illustrative exercise on the proposition set as bookwork.

(7) Mathematics on the higher standard shall, in addition, comprise Euclid, Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with deductions, Quadratic Equations, Trigonometry to the Solution of Triangles inclusive, and the use of Logarithmic Tables. The Joint-Board has directed that the proportion of the paper devoted to these subjects respectively shall be, as nearly as possible, two-fifths to Geometry, two-fifths to Algebra, and one-fifth to Trigonometry, and that each question in Geometry shall consist of two parts, of which one shall be an easy deduction or illustrative exercise on the proposition set as bookwork.

(8) Dynamics shall mean the Elementary Statics and Kinetics of Solids, Liquids, and Gases.

(9) A candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.<sup>1</sup>

IV. (1) Attendance on any class shall not qualify for graduation, unless the whole Preliminary Examination has been passed. *Any student who has passed in Latin, Greek, or Mathematics on the higher standard may attend a qualifying class in such subject or subjects without having passed in the other subjects of the examination, provided always that (a) no candidate shall be allowed to present himself for examination in any subject qualifying for graduation until he has passed the whole Preliminary Examination; and (b) no student shall be admitted to a degree in Arts unless he has attended qualifying classes in the University granting the degree, or in another Scottish University, as provided by Section XXV. hereof, for three academic years after he has completed his Preliminary Examination.*<sup>1</sup>

(2) Attendance on a class in any language included in the Preliminary Examination shall not qualify for graduation, unless the candidate, before entering the class, has passed the Preliminary Examination in that subject, and on the higher standard where a double standard is provided. He may, for that purpose, attend any Preliminary Examination held during the course of his study, taking only the paper set in

<sup>1</sup> The words in italics are taken from a supplementary Ordinance No. 44, which was approved by Her Majesty in Council on 28th May, 1894, and will come into force on 1st October, 1894. The Ordinance provides that the alterations on Sections III. (9) and IV. (1) shall be held to have come into force on 1st October, 1892.



that subject; provided always that the provisions of the sub-section immediately preceding shall have been satisfied.

(3) Attendance on a class in any language not included in the Preliminary Examination shall not qualify for graduation, unless the candidate has previously passed an examination in that language on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination.

(4) *Attendance on a class of Mathematics or Natural Philosophy shall not qualify for graduation unless the candidate, before entering the class—in addition to the examination in Mathematics on the Lower Standard required of all students—has passed an examination in the following subjects :—*

(a) *Euclid : Book VI., Propositions 1–19, or Geometry equivalent thereto.*

(b) *Algebra : Quadratic Equations, Ratio and Proportion.*

(c) *The Trigonometry of Right-angled Triangles.*

(5) *A student, who, having passed the Arts Preliminary Examination in accordance with the provisions of this Ordinance, has thereafter obtained a certificate of attendance on a qualifying class of Mathematics, shall not be required to pass any further examination in Mathematics as a condition of entering on the course of study for graduation in Science under the provisions of Ordinance No. 12 [General No. 7—Regulations for Degrees in Science].<sup>1</sup>*

V. (1) The Preliminary Examination shall be held at each University twice in each year, under such regulations as the Senatus, with the approval of the University Court, shall from time to time determine, and shall be conducted in writing.<sup>2</sup>

(2) The Joint-Board of Examiners to be appointed under the provisions of Ordinance No. 8 (Regulations as to Examinations), shall have power to accept the Higher Grade Leaving Certificate of the Scotch Education Department in any subject as an equivalent for the Preliminary Examination in that subject; and to accept the Lower Grade Leaving Certificate of the said Department as an equivalent for the Preliminary Examination on the lower standard in Latin, Greek, and Mathematics; provided they are satisfied that the standard of the examination, at which the said certificates were granted, is not lower than that required by this Ordinance.

Under this subsection the Joint-Board of Examiners have resolved as follows :—For the Preliminary Examination in Arts and Science the Higher and Honours Grade Leaving Certificates of the Scotch Education Department in Latin, Greek, and Mathematics will be accepted as equivalent to the Higher Standard in each of these subjects, as prescribed by the Arts Ordinance, and the Lower Grade Certificate to the Lower Standard; the Higher and Honours Grade Leaving Certificate in English and Modern Languages will be accepted as equivalent to the standard prescribed for each of these subjects by the Arts Ordinance. No Examinations conducted in Scotland, other than those of the Scotch Education Department, will be accepted as equivalent to the Preliminary Examinations in Arts and Science.

<sup>1</sup> See note on preceding page.

<sup>2</sup> For dates of Preliminary Examinations see Table on page 133.



TABLE OF PRELIMINARY EXAMINATIONS FOR DEGREES IN ARTS, SCIENCE, AND MEDICINE, TO BE HELD DURING SESSION 1894-95.

I. ARTS AND SCIENCE.

Fee.	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.	Subject.	Dates of Examinations and Hours at which the various Papers will be set.
10s. 6d.	13th September or 11th March.	Italian, - English, -	Friday, 28th September, 2 to 5 p.m. Saturday, 29th September, 9 to 11 a.m., and 12 noon to 2 p.m.
10s. 6d.		Lower Greek, - Lower Latin, - Lower Mathematics Higher Latin, -	Saturday, 29th September, 3 to 6 p.m. Monday, 1st October, 9 a.m. to 12 noon. Tuesday, 1st October, 2 to 5 p.m. Tuesday, 2nd October, 9 to 11 a.m., and 12 noon to 2 p.m.
		French (1st Paper). Higher Greek, -	Tuesday, 2nd October, 3 to 4.30 p.m. Wednesday, 3rd October, 9 to 11 a.m., and 12 noon to 2 p.m.
		German (1st Paper) Intermediate and Higher Math., - French (2nd Paper). German (2nd Paper). Dynamics, -	Wednesday, 3rd October, 3 to 4.30 p.m. Thursday, 4th October, 9 to 11 a.m., and 12 noon to 1.30 p.m. Thursday, 4th October, 3 to 5 p.m. Friday, 5th October, 9 to 11 a.m. Friday, 5th October, 1 to 4 p.m.

II. MEDICINE.

10s. 6d.	13th September or 11th March.	English, -	Saturday, 29th September, 9 to 11 a.m., and 12 noon to 2 p.m.
10s. 6d.		Greek, - Latin, - Mathematics, - French, - German, -	Saturday, 29th September, 3 to 6 p.m. Monday, 1st October, 9 a.m. to 12 noon. Tuesday, 1st October, 2 to 5 p.m. Tuesday, 2nd October, 3 to 6 p.m. Wednesday, 3rd October, 3 to 6 p.m.

(3) The Joint-Board of Examiners shall have power to determine what examinations, if any, other than those for the Leaving Certificates of the Scotch Education Department, may be accepted as equivalent to the Preliminary Examination in whole or in part, provided they are satisfied that such other Examinations are in fact equivalent thereto.

Under this subsection the Joint-Board have resolved as follows :—

(a) A Degree in Arts or in Science, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall exempt from the Preliminary Examination in Arts or in Science, as the case may be.

(b) The Higher Certificate of the Oxford and Cambridge Schools Examinations Board will be accepted as equivalent to the Higher Standard in each subject in the Preliminary Examination in Arts and Science, and their Lower Certificate as equivalent to the Lower Standard.

(c) For the Preliminary Examination in Arts and Science, the Deans of the Faculties concerned are empowered to accept, *pro tanto*, such examinations qualifying for entrance to recognized Colonial and Foreign Universities (although not included in the list of Equivalent Examinations issued by the Joint-Board) as they consider to be sufficient, but on condition that they afterwards report each case to their respective Senates, and to the Joint-Board as soon as possible.

#### ORDINARY DEGREE.

VI. Candidates for the ordinary degree of Master of Arts may follow the Curriculum and take their degree in the subjects hitherto recognised for graduation, as provided by the regulations<sup>1</sup> contained in Ordinances Nos. 12, 14, 18, and 69 of the Commissioners under the Universities (Scotland) Act, 1858, subject always to the preceding provisions of this Ordinance; or they may vary the Curriculum for graduation under the regulations contained in the immediately succeeding sections.

VII. (1) Candidates shall attend full courses in at least seven subjects, and shall be examined on these subjects.

(2) Of these subjects four must be (a) Latin or Greek (*not Modern Greek*); (b) English or a Modern Language (*i.e., French, German, Italian, or Spanish*) or History; (c) Logic and Metaphysics, or Moral Philosophy; (d) Mathematics or Natural Philosophy.

(3) The remaining subjects may be selected by the candidate from the Departments specified in Section IX. of this Ordinance, under the following condition :—That the whole subjects taken shall include either (a) both Latin and Greek (*not Modern Greek*), or (b) both Logic and Moral Philosophy, or (c) any two of the following three subjects :—Mathematics, Natural Philosophy, and Chemistry.<sup>2</sup>

VIII. (1) Each of the subjects must be studied in a full course of not less than one hundred meetings of the class on separate days, except in cases where the Senatus, with the approval of the University Court, shall have sanctioned, as qualifying for graduation, half courses of not less than fifty meetings on separate days; or where the Senatus, with the approval of the said Court, shall, having regard to the nature of the subject, sanction full courses of less than one hundred or of less than fifty meetings respectively.

<sup>1</sup> See pp. 140, 141.

<sup>2</sup> The words in italics are taken from Ordinance No. 44. See note on p. 131.

Under this subsection the Senate, with the approval of the University Court, has sanctioned, as qualifying for graduation, half courses in the following subjects, viz.:—Latin, Greek, Political Economy, Philosophy of Law, Mathematics, Astronomy, Geology, Constitutional Law and History, and Public Law.

(2) Two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

Under this subsection the Senate, with the approval of the University Court, has determined that any two half courses in subjects which are taught only in half courses and not in full courses in Arts, shall be held to be equivalent to a full course, and that where in Arts a full course is given in any subject, a half course in such subject shall not be combined with a half course in any other subject, but only with a second half course in the same subject, both the systematic and practical portions of the courses being taken in cases where both are prescribed.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

Under this subsection the Senate, with the approval of the University Court, has resolved that in Chemistry, Botany, and Zoology the course of study for a Degree in Arts, and the relative proportion of lectures and laboratory or practical work, shall be as follows:—

1. Chemistry.—A systematic course of one hundred meetings of the class and a practical course of two and a half months.

2. Botany.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

3. Zoology.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

IX. The Departments of study for graduation in Arts in each University shall, if adequate instruction is provided, include the following subjects, with such additions or modifications in any University as may hereafter be made by Ordinance of the University Court:—

#### 1. *Language and Literature.*

Latin.	French.	Sanskrit.	Celtic.
Greek.	German.	Hebrew.	Modern Greek.
English.	Italian.	Arabic or Syriac.	

#### 2. *Mental Philosophy.*

Logic and Metaphysics.	Education (Theory, History, and Art of).
Moral Philosophy.	Philosophy of Law.
Political Economy.	

#### 3. *Science.*

Mathematics.	Astronomy.	Zoology.	Geology.
Natural Philosophy.	Chemistry.	Botany.	

#### 4. *History and Law.*

History.	Roman Law.
Archæology and Art (History of).	Public Law.
Constitutional Law and History.	

X. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the ordinary degree of Master of Arts on payment of the fees required.

#### DEGREE WITH HONOURS.

XI. (1) The degree of Master of Arts may be taken with Honours in any of the following Groups, in which Honours Classes shall have been established in at least two subjects:—

- (a) Classics (*i.e.*, Latin and Greek, with optional subjects such as Comparative Philology, Ancient Philosophy, and Classical Archæology).
- (b) Mental Philosophy.
- (c) Mathematics and Natural Philosophy.
- (d) Semitic Languages.
- (e) Indian Languages.
- (f) English (Language, Literature, and British History).<sup>1</sup>
- (g) Modern Languages and Literature (*i.e.*, *French, German, Italian, or Spanish*).
- (h) History.

(2) Every Candidate shall take up at least five subjects. Two of these subjects, under separate Professors or Lecturers, must be selected from the Candidate's Honours Group; and the five subjects shall include one from each of the Departments of Language and Literature, Mental Philosophy, and Science, set forth in Section IX. of this Ordinance.

(3) Every Candidate shall attend seven Classes, taking two Classes (one of which shall be an Honours Class) in each of his Honours subjects.

(4) A Candidate who has obtained Honours in any one Group, may, before graduating, present himself again for examination in a second Honours Group. In such a case, he shall not be required to attend more than two additional Classes, which shall be Honours Classes, in the second Group.

(5) The examination in the subjects comprised in the Candidate's Honours Group shall be of a higher standard than that required for the ordinary degree of Master of Arts. In his other subjects the standard shall be that required for the ordinary degree.

(6) The Senatus shall, subject to the provisions of Sections XVI. to XX. of this Ordinance, from time to time determine what subjects shall be comprised in each Group, what subjects may be taken in half courses, and in which Group they may be taken: Provided that no new Group shall be instituted except by Ordinance of the University Court.

(7) The provisions of Section VIII. of this Ordinance shall apply to Candidates for Honours; but, in their case, not fewer than fifty meetings, on separate days, extending over an entire winter session, shall constitute a full course for an Honours Class; and not fewer than twenty-five meetings on separate days, extending over half a winter session, or an entire summer session, shall constitute a half course.

<sup>1</sup> The Senatus Academicus, in determining the courses to be attended within the Honours Group entitled "*English (Language, Literature, and British History)*," and the character of the examination specified in Section XI., Subsection 1 (f), shall regard *English Literature* as constituting the chief subject of the Group, the linguistic and historical subjects being regarded as subsidiary thereto. (See note on p. 131.)

XII. (1) Every Candidate shall include Latin, or Greek, either in his Honours Group or as one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

(2) Greek shall be compulsory for candidates for Honours in Mental Philosophy.

(3) Candidates for Honours in English, or Modern Languages and Literature, or History (Groups *f*, *g*, *h*, of Section XI. hereof), shall include within the whole subjects taken for their degree (*a*) Logic and Metaphysics or Moral Philosophy and (*b*) Mathematics or Natural Philosophy.

XIII. (1) The whole examination in the candidate's Honours Group must be taken at one time, and the whole examination necessary for graduation with Honours must be taken within five years from the date of the candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the extension.

(2) Candidates for Honours may be examined, at any time during their Curriculum, in the three subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

XIV. (1) A candidate who has passed the examinations necessary for the ordinary degree of Master of Arts, but who has not yet graduated, may present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination, and shall not be required to attend further classes:—subject always to the provisions of Section XII. hereof.

(2) No one shall be allowed to present himself a second time as a candidate for the degree of Master of Arts with Honours, who, upon examination, has failed to obtain Honours.

(3) A candidate shall be held to have presented himself who has notified his name for Examination in accordance with the University regulations. But it shall be in the power of the Senatus to relax this rule on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XV. (1) In each Group there shall be three Grades of Honours, to be denominated respectively the First, Second, and Third Class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) For the degree of Master of Arts with Honours a Diploma shall be given setting forth the subjects in which he has taken Honours.

#### BOARDS OF STUDIES.

XVI. The Senatus of each University shall from time to time institute Boards of Studies corresponding as nearly as may be to the Departments of Study enumerated in Section IX. of this Ordinance.

XVII. Each Board of Studies shall consist of such Members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and the Senatus shall appoint one of the Members of the Board to be Convener thereof.



XVIII. Before the end of each winter session each Professor and Lecturer in the said Departments of study shall submit to the proper Board of Studies for its approval a syllabus of the subjects and books proposed for the work of his class for the next academical year. As soon as such approval has been given, the syllabus shall be transmitted to the Faculty of Arts for its consideration. The syllabus, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

*In addition to the syllabus of subjects specified in Section XVIII., the Professors, and in the case where a subject is taught by a Lecturer only, the Lecturer or Lecturers shall submit to the proper Board of Studies a syllabus of the subjects and books to be prescribed for the examinations for the ordinary Degree of Master of Arts in the next academical year, and for the Honours examinations in the academical year next but one.*<sup>1</sup>

XIX. (1) Before the end of each winter session each Board of Studies shall prepare a scheme defining for the academical year next but one following, the classes which shall be deemed to be Honours classes, and the subjects and courses of reading for Honours in its Department, and shall report the same to the Faculty of Arts for its consideration. The scheme, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

(2) Each Board shall in like manner make recommendations through the Faculty of Arts to the Senatus in regard to the half-courses which may be sanctioned under the provisions of this Ordinance, and the lectures which may be given on special subjects.

XX. The Principal and the Dean of the Faculty of Arts shall be *ex officio* Members of each Board of Studies. The Convener shall preside, and, in his absence, each meeting shall appoint its own Chairman, and every Chairman shall have a deliberative, and, in cases of equality, a casting vote.

#### GENERAL.

XXI. *In the case of a foreign student whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint Board of Examiners may deem sufficient.*<sup>1</sup> In the case of a student whose native language is other than European, the Senatus may accept as an alternative to Latin or Greek any other classical language, such as Sanskrit or Arabic, subject always to the provisions of Section IV., Sub-section 3 hereof.

XXII. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XXIII. The examination in all the languages in the Curriculum shall, as far as possible, be on the same standard in Examinations for the same degree, and shall in all cases test the candidate's knowledge of the history and literature of the several countries.

XXIV. A candidate for the degree of Master of Arts shall not be deemed to have attended a class as part of the Curriculum for that

<sup>1</sup> See note on p. 131.



degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XXV. A student, who has given attendance at classes recognised as qualifying for graduation during one or more sessions in any one or more of the Scottish Universities, may complete his Curriculum by giving attendance during the remainder of his course in another Scottish University, and may proceed to a degree in the latter University in the same way, in all respects, as if the previous part of his Curriculum had been taken therein: Provided always that every such student shall be bound to produce, to the satisfaction of the Senatus of the latter University, certificates of his having passed the Preliminary Examination, and of his attendance at the former University or Universities, and shall be examined in all the subjects necessary for a degree of Master of Arts by the Examiners of the University in which he completes his Curriculum, and in which alone he shall be allowed to graduate; and that no such student shall be admitted to a degree in any University unless he has given attendance in such University during the last winter session of his Curriculum, and one other winter session or two summer sessions.

XXVI. A candidate for the degree of Master of Arts with Honours, who has failed to be placed in any class, may, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the ordinary degree of Master of Arts, receive from them a certificate of having passed in such subject, which shall count *pro tanto* as part of the examination required under the regulations for the ordinary degree of Master of Arts.

XXVII. The degree of Master of Arts shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XXVIII. A student who, previous to 1st October, 1892, commenced his course of study with a view to graduation in Arts in any of the Scottish Universities under the regulations<sup>1</sup> in force at the time in such University, may complete his course and become a candidate for the degree of Master of Arts, with or without Honours, in conformity with such regulations. And any such student who has passed the examination hitherto required for admission to a Curriculum of three sessions shall, if he desire to come under the regulations of this Ordinance, be exempted from the Preliminary Examination herein required.

XXIX. Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation.

*Attendance on classes in the Faculty of Arts in which the teaching is on the standard at present recognised for the classes hitherto known as Junior or Middle Classes, shall in no case qualify for graduation.*<sup>2</sup>

XXX. It shall be competent for the University Court in each University to discontinue the Junior Classes, or Middle Classes, where such exist, in Latin, Greek, and Mathematics, when, in the opinion of the Court, the provision for Secondary Education in schools throughout the country is sufficient to render such classes no longer necessary.

<sup>1</sup> See p. 140.

<sup>2</sup> See note on p. 131.

REGULATIONS APPLICABLE TO ALL WHO BEGAN THEIR ACADEMICAL COURSE  
BEFORE 1ST OCTOBER, 1892.

I. The ordinary course of study necessary for the Degree of Master of Arts (except in the circumstances mentioned in the following paragraph) extends over four winter sessions, and includes attendance for not less than two sessions on the classes of Humanity, Greek, and Mathematics respectively, and attendance for not less than one session on the classes of Logic, Moral Philosophy, English Literature, and Natural Philosophy respectively.

II. Any student who, at the time of his entrance to the University, shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the higher classes of Latin, Greek, and Mathematics, or any of them, may be admitted to such higher class or classes without having attended the Junior class or classes, in the same department or departments; and in the case of students who are, after such examination, admitted to the higher Greek and Latin classes, the course of study for the Degree of Master of Arts may be completed within three winter sessions instead of four.

III. In pursuing the course of study for the Degree of Master of Arts, no student is permitted to pass from the Junior to a higher class in any department, unless the Professor is satisfied of his fitness to enter the higher class.

IV. It is in the power of any student, who has given attendance during one or more sessions on the course of study in any other Scottish University, to complete his course of study and proceed to the Degree of M.A. in this University: Provided always, that every such student shall produce, to the satisfaction of the Senatus Academicus of this University, testimonials of his attendance at the former University, and shall be examined in all the departments necessary for the Degree of Master of Arts by the Examiners of this University: Provided also, that no student shall be admitted to a Degree in this University unless he has given attendance in this University during the last two sessions of his course.

V. Any student who has completed the required attendance on the Latin and Greek classes, may be examined on those subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course; and, in like manner, any student who has completed the required attendance on the classes of Logic, Moral Philosophy, and English Literature, may be examined on these subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course; and, in like manner, any student who has completed the required attendance on the classes of Mathematics and Natural Philosophy, may be examined on these subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course; and, if such student shall satisfy the Examiners, when so examined in Latin and Greek, or in Logic, Moral Philosophy, and English Literature, or in Mathematics and Natural Philosophy, he is entitled to receive from them a certificate to that effect, and he is not again examined on the same subjects, as a condition of his taking the Degree of Master of Arts.

VI. Students who have passed satisfactorily an examination or examina-

tions on the several subjects embraced in the prescribed course of study, are entitled forthwith to receive the Degree of Master of Arts without Honours; but they may, before taking a Degree, offer themselves for a farther Examination, with a view to Graduation with Honours:<sup>1</sup> Provided always, that any student who desires to offer himself for examination, with a view to Graduation with Honours, in any one or more departments, may proceed to such examination without having previously passed the examination in such department or departments for the Degree of Master of Arts, without Honours; and if such student, in the opinion of the Examiners, fails to attain the standard for Honours in any department, but attains to the standard of the examination for Graduation without Honours, he shall be held to have passed in that department for the Degree of Master of Arts without Honours, but if in any such department he fails to attain to the standard of the examination for Graduation without Honours, he shall not be entitled, until he shall have passed in that department, to the Degree of Master of Arts: Provided also, that no person shall be admitted to examination for Honours after he has ceased to be a matriculated student in attendance on a class or classes in the University for more than one winter session, unless he has been prevented from offering himself by ill-health or other sufficient cause.<sup>2</sup>

There are four departments, in any one or more of which candidates for Graduation with Honours may offer themselves for examination, viz.:—

- A. Classical Literature;
- B. Mental Philosophy, including Logic, Metaphysics, and Moral Philosophy;
- C. Mathematics, including Pure Mathematics and Natural Philosophy; and
- D. Natural Science, including Botany, Geology, Zoology, and Chemistry.

In each of the first three of the above-mentioned departments—viz., in Classical Literature, in Mental Philosophy, and in Mathematics—there are two grades of honour, denominated respectively the First Class and the Second Class; but in the department of Natural Science there is one class of Honours only; and the names of the candidates entitled to honours in each class, in the several departments, are arranged, when publicly announced, in alphabetical order.

The papers for the examinations under the old regulations are the same as those in the corresponding subjects for the Degree of M.A. under the new regulations, and the examinations take place at the same time.

For Dates of examination see Table on p. 148.

<sup>1</sup> The provisions with regard to Honours contained in this and the following paragraphs are applicable only to those who began their curriculum before session 1892-93.

<sup>2</sup> By minute of date 28th November, 1872, the Senate resolved that the power conferred on them of dispensing with the above regulation "will not be exercised except in the case of the applicant having been precluded from attendance by ill-health, or very peculiar circumstances, quite beyond the applicant's control; attendance at another University not to be considered such."

TABLE OF SUBJECTS OF EXAMINATION FOR THE DEGREE OF MASTER OF ARTS, ACCORDING TO THE DIFFERENT CLASSES OF DISTINCTION WHICH CANDIDATES MAY HAVE IN VIEW.

The Examination Questions prescribed in April, 1894, in the several Departments and Subjects will be found towards the end of the Calendar.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
LATIN	<p><b>October, 1894.</b>  <b>VIRGIL, <i>Æneid</i>, Book IX.</b>  <b>PROPERTIUS</b> (Ramsay's Selections), Books II, III, IV.  <b>HORACE, <i>Epistles</i>, Book I.</b>  <b>TACITUS, <i>Annals</i>, Book IV.</b>            Any one of the following: (a) CICERO, any oration or orations of not less than 40 chapters; (b) CICERO's <i>Epistles</i>, any 40 consecutive pages (Pritchard &amp; Bernard's Selection); (c) any Book of LIVING.  <b>ROMAN ANTIQUITIES and ROMAN HISTORY, from B.C. 133 to B.C. 31</b> (<i>Students' History of Rome</i>, Books VI, VII).            Unseen translation.  <b>Latin Prose Composition and Grammar.</b></p>	<p><b>October, 1894, and afterwards till further notice.</b>  <b>VIRGIL, <i>Æneid</i> VII—XII.</b>  <b>HORACE, the <i>Satires</i> and <i>Epistles</i>.</b>            And any two (or more) of the following combinations:            (a) CICERO, Books I, II, with a play of <b>PLAUTUS</b>.            (b) <b>JUVENAL</b> (the whole excepting Sat. II, VI, and IX).            (c) <b>PERSIUS</b>, with Sellar's Selections from <b>MARTIAL</b>, Books I—IV.            (d) <b>CATULLUS</b> (Strong's Selection) and <b>PROPERTIUS</b> (Ramsay's Selection).</p>
	<p><b>April and October, 1895.</b>  <b>VIRGIL, <i>Æneid</i>, Book XI.</b>  <b>HORACE, <i>Odes</i>, Books II, III, IV.</b>  <b>MARTIAL</b> (Sellar's Selections), Books V, VI, VII.  <b>TACITUS, <i>Annals</i>, Book IV.</b>            Any one of the following: (a) CICERO, any oration or orations of not less than 40 chapters; (b) CICERO's <i>Epistles</i>, any 40 consecutive pages (Pritchard and Bernard's Edition); (c) any Book of LIVING.  <b>ROMAN ANTIQUITIES and ROMAN HISTORY from B.C. 133 to B.C. 31</b> (<i>Students' History of Rome</i>, Books VI and VII).            Unseen translation.  <b>Latin Prose Composition.</b></p>	<p><b>Prose.</b>  <b>CICERO, the <i>Philippic Orations</i>, I—VI, or any oration of Cicero, or any consecutive portion of Cicero's <i>Epistles</i> (Muirhead's or Pritchard and Bernard's Selections) of at least equal length.</b>  <b>LIVY, I—III, or XXI—XXIII.</b>  <b>TACITUS, <i>Annals</i>, Books I—IV.</b>            With Latin Composition, History, and Antiquities, &amp;c. Passages also from Books not prescribed will be set.            Candidates may profess any extra books they please.</p>

*Note.*—Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the Books read is required, so as to enable a student to explain and comment on the text, and explain allusions.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
GREEK	<p><b>October, 1894.</b>  <b>HOMER, <i>Od. IX.</i>, or <i>Od. IV.</i>, 1—620.</b>  <b>ÆSCHYLUS, <i>Persæ</i> ; or SOPHOCLES, <i>Antigone</i>.</b>  <b>DEMOSTHENES, <i>Against Leptines</i>.</b>  <b>PLATO, <i>Republic</i>, Book I and Book II (down to 367 E) ; or ANAXOTLE, <i>Poetics</i>, Chap. I—XXIII inclusive, omitting XX and XXI.</b>  <b>Unseen translation and composition.</b>  <b>History of Greece ; either Chap. I—XX in Oman's <i>History</i>, or Chap. XXI—XXXV (i.e., 478—404 B.C.).</b>  <b>Questions on Greek Grammar, Literature, History, and Antiquities.</b></p>	<p><b>October, 1894, and afterwards till further notice.</b>  <b>HOMER</b>, any twelve books.  <b>Any two of the following five groups, i.e., an amount equivalent to four plays in all.</b>  <b>VERSE.</b>            1. <b>ÆSCHYLUS</b>, Two plays of the <i>Orestia</i>.            2. <b>SOPHOCLES</b>, two plays selected from the <i>Oedipus Tyrannus</i>, <i>Oedipus Coloneus</i>, <i>Antigone</i>.            3. <b>EURIPIDES</b>, two plays selected from the <i>Phœnissæ</i>, <i>Iphigenia in Aulide</i>, <i>Hippolytus</i>.            4. <b>PINDAR</b>, two books of the <i>Odes</i>.            5. <b>THEOCRITUS</b>, the whole as in SNOW'S edition.  <b>THUCYDIDES</b>, two books, or <b>HERODOTUS</b>, two books.  <b>Either—1. PLATO</b>, two of the following Dialogues—<i>Phædo</i>, <i>Protagoras</i>, <i>Gorgias</i>, <i>Theætetus</i>, <i>Apology</i> ;  <b>OR—</b>            2. <b>ARISTOTLE</b>, <i>Politics</i>, Books I, II, III, or IV, V, VI (as numbered in Bekker's text) ; Or <i>Constitution of Athens and Poetics</i>.</p>
	<p><b>April and October, 1895.</b>  <b>HOMER, <i>Od. IX.</i>, or <i>Il. XVI</i>.</b>  <b>ÆSCHYLUS, <i>Persæ</i> ; or EURIPIDES, <i>Hippolytus</i>.</b>  <b>THUCYDIDES VII., omitting cap. 18—41.</b>  <b>PLATO, <i>Crito</i>.</b>  <b>Unseen translation and composition.</b>  <b>History of Greece ; either Chap. I—XX in Oman's <i>History</i>, or Chap. XXI—XXXV (i.e., 478—404 B.C.).</b>  <b>Questions on Greek Grammar, Literature, History, and Antiquities.</b>  <i>Note.</i>—Under the New Regulations more importance than has hitherto been usual will be attached to Greek Composition, which will henceforth be set in a separate paper.</p>	<p>Greek Composition and unseen translation. Questions in Greek Grammar, Literature, History, and Antiquities.            Candidates will be required to show a thorough acquaintance with the subject matter, as well as with the text, of the Books.            Since April, 1893, candidates, while expected to translate accurately all the books which they profess, are required to offer Three Special Books, in which they will be asked to comment on particular words, passages, and questions of text.            The special books may be chosen from the following, one of the three being always prose, and one poetry :—<i>Æschylus, Aramœum or Choephori</i> ; <i>Sophocles, Antigone</i> ; <i>Euripides, Hippolytus</i> ; <i>Homer, Odyssey, IX—XI or <i>Iliad</i>, XVI, XIX, XXII</i> ; <i>Thucydides, IV or VII</i> ; <i>Plato, Apology</i> ; <i>Aristotle, Politics</i>. A pure and accurate English style in translation is considered of the highest importance.            Candidates for Second Class Honours only may profess an amount equivalent to at least <i>one-half</i> of each of the authors, Greek or Latin, prescribed above, with or without special books.</p>

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
ENGLISH LITERATURE	<p><b>October, 1894.</b></p> <p>A. For students of session 1892-93:—(1) English Composition and (optional) English Philology; (2) History of English Poetry, from Cowper to Keats (text-book, Ward's <i>English Poets</i>, vol. 4); (3) (a) <i>Macbeth</i> (Clar. Press); (b) Green's <i>Essays by Addison</i> (Macmillan).</p> <p>B. For students of session 1893-94:—(1) English Composition; (2) English Philology; (3) Elizabethan Drama, especially Marlowe's <i>Dr. Faustus</i> and <i>Edward II.</i>; Shakespeare's <i>Two Gentlemen of Verona</i>, <i>Henry V.</i>, <i>As You Like It</i>, <i>Much Ado about Nothing</i>, <i>Twelfth Night</i>, <i>Hamlet</i>, <i>Othello</i>, <i>King Lear</i>, <i>Cymbeline</i>; Jonson's <i>Alchemist</i> and <i>Epicure</i>; Beaumont and Fletcher's <i>Philaster</i>; Massinger's <i>A New Way to Pay Old Debts</i>; (4) (a) Chaucer's <i>Knight's Tale</i> (Clarendon Press edition), (c) Tennyson's <i>Idylls of the King</i>.</p> <p>Students of sessions prior to 1892-93 can take either paper and can omit Philology, but no third paper will be set.</p> <p><b>April and October, 1895.</b></p> <p>A. For students of session 1893-94, the subjects of that session specified above under B.</p> <p>B. For students of session 1894-95, the subjects specified on pp. 60, 61 (with any modification or addition made during session).</p> <p>Students of sessions prior to 1893-94 can take either paper and can omit Philology, but no third paper will be set.</p>	<p>Students will be examined in the following subjects:—(1) English Philology, with Sweet's <i>Anglo-Saxon Reader</i> and Morris &amp; Skelton's <i>Specimens of Early English</i>, Parts I and 2. (2) General History of English Literature from 1350, with the first principles of Aesthetics as applied to Literature. (3) Shakespeare. (4) One of the following:—(a) Anglo-Saxon Poetry; (b) Scottish Poetry to Lindsay; (c) Dunbar and Spenser; (d) Milton and parts of Bacon; (e) Dryden, Pope, Swift, Addison, Richardson, Fielding, Johnson, Burke, Hume, Gibbon, Burns, Scott, Austen, Wordsworth, Coleridge, Byron, Shelley, Keats, Carlyle, Tennyson, R. Browning, Ruskin,—any three of these, provided that the three include a poet and a prose-writer, and do not include more than one of the last four writers. Names of Authors counted as prose-writers are in italics.</p>
HEBREW	<p><b>October, 1894; April and October, 1895.</b></p> <p>The Book of Genesis.</p> <p>Psalms I—XLI.</p> <p>Any one of the following:—(a) Joel, (b) Nahum, (c) Habakkuk, (d) Zephaniah. Unseen translation.</p> <p>Unpointed text to be pointed and translated. Translation from English into Hebrew. Questions on Grammar, Syntax, and Accents.</p>	



IN	FOR ORDINARY DEGREE.	FOR HONOURS.
LOGIC	The Professor's Lectures and <i>Institutes of Logic</i> (large Print only).	In addition, the Professor's Lectures in Higher Class, (a) The Theatetus; (b) Descartes the Method, Meditations and Principles of Philosophy (English Translation, with Introduction, 1879); Locke's Essay, Books II and III; Hume, Enquiry Concerning Human Understanding; Reid, Essays on the Intellectual Powers, II, III, VI, with Hamilton's Notes and Supplementary Dissertations to Reid. Hamilton's Discussions ( <i>Logic</i> , Perception, Cousin and Philosophical Appendix); (c) Systems of Kant, Fichte, Schelling, Hegel, Lotze; (d) Hoffding's Outlines of Psychology (translated by Lowndes, 1891); (e) Institutes of Logic (large and small Print).
MORAL PHILOSOPHY	The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class; and the text-book, if any, used in the Class during that session.	Candidates for Honours will be examined on the History of Ancient and Modern Philosophy, as well as on Moral and Political Philosophy. They are required to show accurate knowledge of the following books:—(1) Plato's Republic; (2) Aristotle's Ethics; (3) Watson's Selections from Kant's Critiques of Pure and Practical Reason; (4) Green's Prolegomena to Ethics; (5) Spencer's Data of Ethics. They are also recommended to read such works as Hegel, as translated and illustrated by Dr. Stirling and Mr. Wallace, Maine's Ancient Law, Green's Hume, Lotze's Microcosmus, Bradley's Ethical Studies, Spencer's Psychology and Sociology, and Sidgwick's Methods of Ethics; but they will not be specially examined on these books.
POLITICAL ECONOMY	The Lectures and Text-Books of the session in which the student has attended the class.	
PHILOSOPHY OF LAW	Holland's Jurisprudence (sixth edition). Maine's Ancient Law. Miller's Philosophy of Law.	Second Class.—In addition, Higher Algebra; Plane Trigonometry; Analytical and Geometrical Conics, and Differential and Integral Calculus so far as treated in the Intermediate Honours Mathematical Class.
MATHEMATICS	Euclid, First Six Books, and Book XI, 1—21. Algebra, including Quadratic Equations, Progressions, and Binomial, Exponential, and Logarithmic Theorems. Plane Trigonometry, including the Solution of Triangles by the aid of Logarithmic tables.	First Class.—In addition, Spherical Trigonometry, Solid Geometry, Differential and Integral Calculus, Differential Equations, and Elements of Finite Differences.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
NATURAL PHILOSOPHY	<p>Examination on the Subjects explained in the Class. On the Elements of Statics and Kinetics, with the solution of Problems not requiring the Differential or Integral Calculus; Experimental Science, including Sound, Light, Heat, Electricity, and Magnetism.</p>	<p><i>Second Class.</i>—Thomson and Tait's Elementary Treatise on Natural Philosophy. The subject of special course on Mathematical Physics for session of attendance. Portions of Thomson's Electrical Papers to be professed. <i>First Class</i>—In addition, Kinetics and Statics of a particle; and an elementary knowledge of Elasticity of Solids and Thermodynamics. Rigid dynamics, and portions of Thomson and Tait's Natural Philosophy (large work); also, either Fourier's Théorie Analytique de la Chaleur, or the Mathematical theory of one of the following subjects, Electricity, Magnetism, Light, Sound, Elasticity of Solids. For undulatory Theory of Light, Jamin, Cours de Phys., Vol. III, Part II, and Atry recommended.</p>
ASTRONOMY	<p>Elementary Mathematical Astronomy and Popular Astronomy.</p>	
CHEMISTRY	<p>General principles—Inorganic and Elements of Organic Chemistry. Text-books—Bloxam's Chemistry; Watts' Chemistry, by Tilden; Armstrong's Organic Chemistry; Clowes' Practical Chemistry.</p>	
ZOOLOGY	<p>Claus, Zoology; Rolleston's forms of Animal Life (Jackson's edition).</p>	
BOTANY	<p>The general principles of the Science of Botany, including External Morphology, Anatomy and Physiology; also the chief characters of the Natural Orders of Phænogams represented in the British Flora, and of the leading types of Pteridophyta, Bryophyta, and Thallophyta.</p>	

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
GEOLOGY <sup>1</sup>	J. Geikie's Outlines of Geology; Green's Physical Geology; and Lyell's Manual.	
CONSTITUTIONAL LAW AND HISTORY	1. History of the Constitution during the 16th and 17th centuries. 2. Existing Constitutional Law. Authorities recommended—Hallam's Constitutional History of England; Anson's Law and Custom of the Constitution, 2 vols.; Thomas, Leading Cases in Constitutional Law; Dicey, Law of the Constitution.	
ROMAN LAW	Justinian's Institutes, with Moyle's Introduction, Commentary, etc.	
PUBLIC LAW	Hall's International Law. Candidates are expected to show a general acquaintance with the History of Modern Europe.	

<sup>1</sup> The examination in this and the three preceding subjects will be oral and practical, as well as by written papers.

TABLE OF EXAMINATIONS IN THE SUBJECTS FOR THE DEGREE OF M.A., TO BE HELD  
DURING SESSION 1894-95.

Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.	FEE.	Subjects of Examination.	Dates of Written Examinations and Hours at which the different Papers will be set.	
			October, 1894.	April, 1895.
20th Sept. or 6th March	£1 1s. FOR EACH SUBJECT UNTIL £5 5s. SHALL HAVE BEEN PAID.	Astronomy, - - -	Saturday, 6th Oct., 10-12 noon.	Saturday, 23rd March, 10-12 noon.
		Geology, - - -	Do., do., 1-3 p.m.	Do., do., 1-3 p.m.
		Zoology, - - -	Monday, 8th Oct., 10-12 noon.	Monday, 25th March, 10-12 noon.
		Botany, - - -	Do., do., 12.30-2.30 p.m.	Do., do., 12.30-2.30 p.m.
		Chemistry, - - -	Do., do., 3-5 p.m.	Do., do., 3-5 p.m.
		French (1st Paper), -	Tuesday, 2nd Oct., 3-4.30 p.m.	Tuesday, 2nd April, 3-4.30 p.m.
		Do., (2nd Paper), -	Thursday, 4th Oct., 3-5 p.m.	Thursday, 4th April, 3-5 p.m.
		German (1st Paper), -	Wednesday, 3rd Oct., 3-4.30 p.m.	Wednesday, 3rd April, 3-4.30 p.m.
		Do., (2nd Paper), -	Friday, 5th Oct., 9-11 a.m.	Friday, 5th April, 9-11 a.m.
		Philosophy of Law, -	Tuesday, 9th Oct., 9-12 noon.	Thursday, 28th March, 9-12 noon.
		Public Law, - - -	Do., do., 2-5 p.m.	Monday, 25th March, 2-5 p.m.
		Roman Law, - - -	Wednesday, 10th Oct., 9-12 noon.	Tuesday, 26th March, 9-12 noon.
		Constitutional Law and History, - - -	Do., do., 2-5 p.m.	Do., do., 2-5 p.m.
26th Sept. or 1st March		Mathematics, - - -	Friday, 12th Oct., 10-11 and 2-5 p.m.	Friday, 5th April, 10-11 and 2-5 p.m.
		Natural Philosophy, -	Saturday, 13th Oct., 10-11 and 2-5 p.m.	Saturday, 6th April, 10-11 and 2-5 p.m.
		Latin and Greek, -	Monday, 15th Oct., 10-12, 1-3, and 4-6 p.m.	Saturday, 30th March, 3-6 p.m. (Honours.)
			Tuesday, 16th Oct., 10-12, 1-3, and 4-6 p.m.	Monday, 1st April, 10-12, 1-3, and 4-6 p.m.
			Thursday, 18th Oct., and following days at 11 a.m. (Orals.)	Tuesday, 2nd April, 10-12, 1-3, and 4-6 p.m.
			Friday, 19th Oct., 2-5 p.m. (Honours.)	Thursday, 4th April, and following days at 11 a.m. (Orals.)
		Logic, - - -	Wednesday, 17th Oct., 10-11 and 2-5 p.m.	Wednesday, 3rd April, 10-11 and 2-5 p.m.
Moral Philosophy, -	Thursday, 18th Oct., 10-11 and 2-5 p.m.	Thursday, 4th April, 10-11 and 2-5 p.m.		
English Literature, Political Economy, Hebrew, - - -		Friday, 19th Oct., 10-11 p.m.	Saturday, 30th March, 9-12 p.m.	
		Saturday, 20th Oct., 10-11 p.m.	Thursday, 28th March, 2-5 p.m.	
		Do., do., 2-5 p.m.	Wednesday, 27th March, 2-6 p.m.	

When names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the examination until his Name is entered, the Fee paid, and all the necessary certificates, etc., lodged.

## 2.—GRADUATION IN SCIENCE.

The Universities Commissioners (1889) have ordained that two Degrees in Science may be conferred by each of the Universities of Scotland—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.). These Degrees may be given in Pure Science and in Applied Science.

### Degrees in Pure Science.

The following are the provisions of Ordinance No. 12 as they apply to this University:—

I. Two Degrees in Science may be conferred by the University of Glasgow—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.).

II. Every candidate for the Degree of Bachelor of Science must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for Degrees in Arts); and the conditions with respect thereto imposed by that Ordinance (see pp. 129—134, 138) are applicable in all respects to Ordinance No. 12, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard<sup>1</sup>; (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court after consultation with the Senatus, exempts from the Preliminary Examination.

III. (1) Candidates for the Degree of Bachelor of Science must, in the course of not less than three academical years, attend at least seven courses of instruction, in subjects prescribed for examination under Sections VIII. and IX. below.

(2) Three of these courses must be in subjects prescribed for the First Science Examination under Section VIII.; and four must be in subjects prescribed for the Final Science Examination under Section IX.

IV. (1) Four of the seven courses must be taken in this University.

(2) Three may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science:—Provided that the fees for attendance at an approved Institution or under a recognised teacher in Glasgow shall not be less than the fees exigible for the corresponding courses in the University.

V. All candidates, not matriculated students of the University, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in Glasgow, shall at the commencement of each year of such attendance enrol their names in a book to be kept for that purpose in the University, paying a Fee of the same amount as the Matriculation Fee paid by students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) [After receiving through the Faculty of Science the opinion of the Board of Studies] the Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.<sup>2</sup>

<sup>1</sup> For a modification of this, see p. 132.

<sup>2</sup> The Universities Commissioners, on 18th November, 1893, ordained that for the better carrying out of the purposes of these subsections the Senate should institute a Board or Boards of Studies in the Faculty of Science. See Ordinance No. 42, Section II. The provisions of this supplementary Ordinance, which received the approval of Her Majesty in Council on 28th May, 1894, have in the text been combined, by means of square brackets, with the provisions of the original Ordinance.

(2) [After receiving through the Faculty of Science the opinion of the Board of Studies] the Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; but two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.<sup>1</sup>

(3) It is the duty of each Professor and Lecturer annually at the end of each winter session to submit to the Senatus [after 1st October, 1894, the Board of Studies] a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. [The Board of Studies shall transmit the schemes to the Faculty of Science, who shall submit them to the Senate with such observations as they may think fit to make thereon.] The Senatus transmits such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.<sup>1</sup>

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next Academical Year. The Faculty of Science transmits such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved Institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any Institutions or teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

VIII. (1) There is a First Science Examination<sup>2</sup> in the three following subjects—viz., (1) Mathematics or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects is the same as the examination in these subjects for the ordinary degree of Master of Arts.

(3) Candidates may present themselves in any one or more of these subjects at any examination held after they have attended a full course in the subject or subjects professed.

IX. (1) There is a Final Science Examination<sup>2</sup> on a Higher Standard in any three or more of the following subjects:—

- |   |  |
|---|--|
| 1. Mathematics.                           | 6. Physiology.                             |
| 2. Natural Philosophy.                    | 7. Geology, including Mineralogy.          |
| 3. Astronomy.                             | 8. Zoology, including Comparative Anatomy. |
| 4. Chemistry.                             | 9. Botany, including Vegetable Physiology. |
| 5. Human Anatomy, including Anthropology. |  |

(2) The standard of this examination shall be as nearly as possible equivalent to that of the examination for the degree of Master of Arts

<sup>1</sup> See second footnote on previous page.

<sup>2</sup> This Examination includes practical work in the subjects admitting of, or requiring it.



with Honours, where the subjects are different; and where the subjects are the same the examination shall be identical.

(3) A subject already taken under the preceding section for the First Science Examination may be taken also under this section for the Final Science Examination.

(4) Candidates presenting themselves for this examination must have attended four full courses of higher instruction, including practical or laboratory work, in the subjects professed, subject always to the provisions of Sections VI. and VII. hereof.

(5) The Final Science Examination shall be taken not less than one year after the candidate has passed the First Science Examination.

X. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XI. A candidate for the degree of Bachelor of Science shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It is competent to the Examiners for the degree of Bachelor of Science to report that a candidate has passed with special distinction in one or more of the subjects professed by him: and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

#### DEGREE IN APPLIED SCIENCE.

XIII. Degrees in Applied Science may be instituted and conferred according to regulations to be laid down in special Ordinances applicable to each University by the Commissioners under the Universities (Scotland) Act, 1889; or after the expiry of their powers by the University Court in each University.

XIV. The provisions of Sections II. to VIII. of this Ordinance inclusive, in so far as they relate to the Preliminary and First Science Examinations, shall be applicable in all respects to degrees in Applied Science instituted as aforesaid, except where special provision is made to the contrary in the special Ordinances aforesaid.

#### DOCTORATE OF SCIENCE.

XV. Graduates of any University who have held the degree of Bachelor of Science for a term of five years, may offer themselves for the degree of Doctor of Science in the same University.

XVI. A candidate for the degree of Doctor of Science shall present a thesis or a published memoir of work to be approved by the Senatus

(on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination as may from time to time be determined.

The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done and the thesis composed by himself.

#### GENERAL.

XVII. A Student who, at the time when this Ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in any of the Scottish Universities under regulations in force at the time in such University, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,<sup>1</sup> or with the provisions of this Ordinance, may become a candidate for the degree of Bachelor of Science.

XVIII. The degrees of Bachelor and Doctor of Science shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XIX. This Ordinance came into force on 1st October, 1892.

For dates of examination, see Table on page 157.

#### Degrees in Science in Engineering.

The following are the provisions of Ordinance No. 23, Glasgow No. 2:—

I. Two Degrees in Science in Engineering may be conferred by the University of Glasgow, viz., Bachelor of Science in Engineering and Doctor of Science in Engineering.

II. Every candidate for the degree of Bachelor of Science in Engineering must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for Degrees in Arts); and the conditions with respect thereto imposed by the said Ordinance (see pp. 129—134, 138) are applicable in all respects to this Ordinance except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard; (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, exempts from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. Candidates must in the course of not less than three Academical years attend at least the nine courses of instruction prescribed under Section IX. below.

<sup>1</sup> Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the University Calendar for 1884-85; those who began in 1890, or 1891, or 1892, may qualify under the regulations contained in the Calendar for 1892-93.

IV. (1) Five of the nine courses must be taken in this University. One of these courses must be a course in Engineering.

(2) Four may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Engineering:—Provided that the fees for attendance at an approved Institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

V. It is competent to the University Court to admit to the examinations for the degree of Bachelor of Science in Engineering, and to graduation, any candidate who presents the diploma of the Glasgow and West of Scotland Technical College, and who has passed the Preliminary Examination hereinbefore appointed: Provided that before such candidate shall be admitted to the Final Science Examination prescribed under Section XI. hereof:—

(1) He shall, after having received the said diploma, have attended in this University at least three full courses, during at least one Academical year; and of these courses one at least shall be in Engineering.

(2) He shall, after having received the said diploma, have attended in this University such courses as will, along with the classes taken at the said College for the said diploma, be equivalent to the whole courses for the curriculum hereinafter instituted.

VI. The University Court may make regulations to enable candidates not matriculated students of the University availing themselves of the permission to attend lectures at approved institutions or by recognised teachers in Glasgow, to obtain on payment of a fee not exceeding in amount the Matriculation Fee paid by the students of the University, a right to the use of the Library of the University.

VII. (1) The Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; and two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next Academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VIII. The provisions of the preceding section do not apply to approved Institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any Institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow.

IX. The subjects of study shall be as follows:—

1. Mathematics, including Analytical Geometry, and Differential and Integral Calculus.
2. Natural Philosophy, including Applied Higher Mathematics.
3. Chemistry.
4. A course in the Physical Laboratory, or in the Chemical Laboratory, or of Practical Chemistry.

and either:—

- 5, 6. Two courses in Engineering, including Laboratory Practice.
- 7, 8. Two courses of practical work in Drawing.
9. A course in one of the following:—
  - (a) Astronomy and Geodesy.
  - (b) Geology and Mineralogy.
  - (c) Naval Architecture.
  - (d) Engineering Laboratory, Mechanical or Electrical (Special Course).
  - (e) Electricity—Pure and Applied.

or:—

- 5, 6. Two courses in Naval Architecture with Marine Engineering.
- 7, 8. Two courses of practical work in Ship and Engineering Drawing.
9. A course in Engineering, including Laboratory Practice.

Provided that during the three years immediately subsequent to the date on which this Ordinance shall come into force, the courses in Engineering herein prescribed shall not necessarily include Laboratory Practice.

X. (1) There shall be a First Science Examination<sup>1</sup> in subjects 1, 2, 3, and 4 of the Section immediately preceding.

(2) The examination in (1) Mathematics and (2) Natural Philosophy shall include the higher branches of Mathematics specified under Mathematics and the higher Mathematics included under Natural Philosophy in the Section immediately preceding; but it shall be optional to candidates to pass the same examination in either or both of these subjects as that required for the ordinary Degree of Master of Arts: Provided that in that case they shall be required before graduation to pass a subsequent examination in the remainder of the subject or subjects.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

XI. (1) There shall be a Final Science Examination<sup>1</sup> in subjects 5, 6, 7, 8, and 9 of Section IX. hereof; and, if required, in the higher branches of Mathematics as provided in Section X., Subsection 2 hereof.

<sup>1</sup>This Examination includes practical work in the subjects admitting of, or requiring it: provided that in the case of Engineering students, a practical examination shall be passed in Chemistry or Physics according as the Chemical or the Physical Laboratory Course has been chosen as part of the qualifying curriculum.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the First Science Examination and have attended the required courses in the subject or subjects professed: Provided that for this purpose subjects 5, 6, 7, and 8, specified in Section IX. hereof, shall be deemed one subject.

XII. A candidate for the degree of Bachelor of Science in Engineering shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XIII. It is competent to the Examiners for the degree of Bachelor of Science in Engineering to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIV. It is competent to the University Court of the University of Glasgow to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable by the development of Engineering Science, or in consequence of further provisions having been made within or without the University for the study of any special branch of the said Science: Provided that in no case shall the number of full courses of study required be less than the number required for the degree of Bachelor of Science in Pure Science, as specified in Ordinance No. 12.

#### DOCTORATE OF SCIENCE IN ENGINEERING.

XV. Graduates of the University of Glasgow who have held the degree of Bachelor of Science in Engineering for a term of five years, may offer themselves for the degree of Doctor of Science in Engineering in the said University.

XVI. A candidate for the degree of Doctor of Science in Engineering shall present a thesis or a published memoir or work to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall be bound to pass such an examination as may from time to time be determined.

The thesis shall be a record of original research undertaken by the candidate, or of important engineering work designed by himself, and actually carried out, and shall be accompanied by a declaration, signed by him, that these conditions have been satisfied.

#### GENERAL.

XVII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degrees of Bachelor of Science in Engineering and Doctor of Science in Engineering, as the case may be, on payment of the Fees required.

XVIII. A student who, at the time when this Ordinance shall come into operation, shall have completed a part of his course of study with a



view to graduation in Science in Engineering in the University of Glasgow, under regulations in force at the time therein, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,<sup>1</sup> or with the provisions of this Ordinance, may become a candidate for the degree of Bachelor of Science in Engineering.

XIX. The degrees of Bachelor and Doctor of Science in Engineering shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XX. This Ordinance came into force from and after the date on which it was approved by Her Majesty in Council.

For dates of examinations see Table on page 157.

#### CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

Certificates of Proficiency in Engineering Science will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners :—

##### *Ordinary Course for the Certificate of Proficiency in Engineering Science.*

##### FIRST YEAR—

Inorganic Chemistry, 5 days weekly, beginning in Oct., 10 A.M.

(*Chemical Laboratory may be taken in this or any other year, Winter or Summer Session, if selected as part of the course. See below :—Third Year.*)

Mathematics,<sup>2</sup> First or Second Class, 5 days weekly, - - - - - 9 A.M. or 12 noon.

Engineering, Class I., Mondays, Wednesdays, and Fridays, - - - - - 8 A.M.

Engineering Drawing and Calculations.

##### SECOND YEAR—

Natural Philosophy, 5 days weekly, - - - - - 9 A.M.

Mathematics, either Second or Intermediate Honours Class, 5 days weekly, - 9 A.M. or 12 noon, or 10 A.M.

Geology and Mineralogy, 5 days weekly, beginning in January, - - - - - 5.30 P.M.

Engineering, Class II. or III., Tuesdays, Thursdays, and Saturdays (in this or other year), 8 A.M.

Engineering Drawing and Calculations.

<sup>1</sup> Students who began their course previous to 1890 may qualify themselves for the degree of B.Sc. in Engineering under the old regulations which are given in the University Calendar for 1884-85; those who began in 1890, 1891, or 1892 may qualify under the regulations contained in the Calendar for 1892-93.

<sup>2</sup> Students who, on entering the University, show themselves qualified to enter the Third Mathematical Class, by passing the mathematical part of the Preliminary Examination in Arts are not required to attend the First or the Second Class of Mathematics.



# TABLE OF EXAMINATIONS FOR DEGREE OF B.Sc., TO BE HELD DURING SESSION 1894-95.

Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.1	Fee.	Dates of Written Examinations and Hours at which the different Papers will be set. The Oral Examinations in Science follow immediately after the Written.																																																																																	
20th Sept., 1894	£1 1s. for each subject until £5 5s. shall have been paid.	<table><tr><td>Sat., 6th Oct.,</td><td>Astronomy, -</td><td>-</td><td>10-12 noon.</td><td>Geology, -</td><td>-</td><td>1-3 p.m.</td><td>Chemistry, -</td><td>-</td><td>3-5 p.m.</td></tr><tr><td>Mon., 8th "</td><td>Zoology, -</td><td>-</td><td>10-12 noon.</td><td>Botany, -</td><td>-</td><td>12.30-2.30 p.m.</td><td>Ship Drawing, etc.,</td><td>-</td><td>3-5 p.m.</td></tr><tr><td>Tues., 9th "</td><td>Engineering Drawing, etc.,</td><td>-</td><td>10-12 noon.</td><td>Naval Architecture, -</td><td>-</td><td>12.30-2.30 p.m.</td><td>Anatomy, -</td><td>-</td><td>3-5 p.m.</td></tr><tr><td>Wed., 9th "</td><td></td><td></td><td></td><td>Physiology, -</td><td>-</td><td>12.30-2.30 p.m.</td><td></td><td></td><td></td></tr><tr><td>Thur., 10th "</td><td>Civil Engineering, -</td><td>-</td><td>10-12 noon, and 12.30-2.30 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Thur., 11th "</td><td>Civil Engineering, -</td><td>-</td><td>10-12 noon, and 12.30-2.30 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Fri., 12th "</td><td>Mathematics, -</td><td>-</td><td>10-1 p.m., and 2-5 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Sat., 13th "</td><td>Natural Philosophy, -</td><td>-</td><td>10-1 p.m., and 2-5 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Sat., 6th Oct.,	Astronomy, -	-	10-12 noon.	Geology, -	-	1-3 p.m.	Chemistry, -	-	3-5 p.m.	Mon., 8th "	Zoology, -	-	10-12 noon.	Botany, -	-	12.30-2.30 p.m.	Ship Drawing, etc.,	-	3-5 p.m.	Tues., 9th "	Engineering Drawing, etc.,	-	10-12 noon.	Naval Architecture, -	-	12.30-2.30 p.m.	Anatomy, -	-	3-5 p.m.	Wed., 9th "				Physiology, -	-	12.30-2.30 p.m.				Thur., 10th "	Civil Engineering, -	-	10-12 noon, and 12.30-2.30 p.m.							Thur., 11th "	Civil Engineering, -	-	10-12 noon, and 12.30-2.30 p.m.							Fri., 12th "	Mathematics, -	-	10-1 p.m., and 2-5 p.m.							Sat., 13th "	Natural Philosophy, -	-	10-1 p.m., and 2-5 p.m.							
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6th Mar., 1895		<table><tr><td>Sat., 23rd Mar.,</td><td>Astronomy, -</td><td>-</td><td>10-12 noon.</td><td>Geology, -</td><td>-</td><td>1-3 p.m.</td><td>Chemistry, -</td><td>-</td><td>3-5 p.m.</td></tr><tr><td>Mon., 25th "</td><td>Zoology, -</td><td>-</td><td>10-12 noon.</td><td>Botany, -</td><td>-</td><td>12.30-2.30 p.m.</td><td>Ship Drawing, etc.,</td><td>-</td><td>3-5 p.m.</td></tr><tr><td>Tues., 26th "</td><td>Engineering Drawing, etc.,</td><td>-</td><td>10-12 noon.</td><td>Naval Architecture, -</td><td>-</td><td>12.30-2.30 p.m.</td><td>Anatomy, -</td><td>-</td><td>3-5 p.m.</td></tr><tr><td>Tues., 26th "</td><td></td><td></td><td></td><td>Physiology, -</td><td>-</td><td>12.30-2.30 p.m.</td><td></td><td></td><td></td></tr><tr><td>Wed., 27th "</td><td>Civil Engineering, -</td><td>-</td><td>10-12 noon, and 12.30-2.30 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Thur., 28th "</td><td>Civil Engineering, -</td><td>-</td><td>10-12 noon, and 12.30-2.30 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Fri., 5th April,</td><td>Mathematics, -</td><td>-</td><td>10-1 p.m., and 2-5 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Sat., 6th "</td><td>Natural Philosophy, -</td><td>-</td><td>10-1 p.m., and 2-5 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Sat., 23rd Mar.,	Astronomy, -	-	10-12 noon.	Geology, -	-	1-3 p.m.	Chemistry, -	-	3-5 p.m.	Mon., 25th "	Zoology, -	-	10-12 noon.	Botany, -	-	12.30-2.30 p.m.	Ship Drawing, etc.,	-	3-5 p.m.	Tues., 26th "	Engineering Drawing, etc.,	-	10-12 noon.	Naval Architecture, -	-	12.30-2.30 p.m.	Anatomy, -	-	3-5 p.m.	Tues., 26th "				Physiology, -	-	12.30-2.30 p.m.				Wed., 27th "	Civil Engineering, -	-	10-12 noon, and 12.30-2.30 p.m.							Thur., 28th "	Civil Engineering, -	-	10-12 noon, and 12.30-2.30 p.m.							Fri., 5th April,	Mathematics, -	-	10-1 p.m., and 2-5 p.m.							Sat., 6th "	Natural Philosophy, -	-	10-1 p.m., and 2-5 p.m.							
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<sup>1</sup> When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the examination until his Name is entered, the Fee paid, and all the necessary Certificates, etc., lodged.

For dates in regard to Science Preliminary Examination see page 132.

## THIRD YEAR—

Intermediate Honours Mathematics, if not previously attended, 5 days weekly, - - - 10 A.M.

Physical Laboratory, about 2 hours on 3 days weekly, or Chemical Laboratory, 5 days weekly; or the Chemical Laboratory can be attended in any year in summer instead.

Engineering, Class IV., 5 days weekly, - - - 9 A.M.

No candidate is admitted to the special Examination for the Certificate, in any department, till he has attended the prescribed course of study in that department.

Attendance on the classes of Mathematics, Natural Philosophy, Chemistry, or Geology, in any Chartered University in the United Kingdom having the power of granting degrees, is admitted as part of the course for the above-mentioned certificate; but all examinations for the certificate must be passed in this University.

Candidates for Certificates of proficiency in Engineering Science, who are graduates in Arts of any Chartered University of the United Kingdom, are exempted from study and examination in Mathematics and Natural Philosophy.

## 3.—GRADUATION IN MEDICINE AND SURGERY.

The Degrees in Medicine and Surgery conferred by this University are all recognised by the Medical Acts as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public Medical Service.

Every student who began his medical studies previous to 1st January, 1892, is entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before<sup>1</sup> or after that date. All others must fulfil the requirements of the new Ordinance—(Ordinance No. 14, Glasgow No. 1, Regulations for Degrees in Medicine)—the principal provisions of which are as follows:—

I. Four degrees in Medicine and Surgery are conferred by the University of Glasgow, viz., Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The degree of Bachelor of Surgery shall not be conferred on any person who does not at the same time obtain the degree of Bachelor of Medicine, and the degree of Bachelor of Medicine shall not be conferred on any person who does not at the same time obtain the degree of Bachelor of Surgery.

II. Subject to regulations to be made from time to time by the University Court, the University may also confer diplomas in Special Branches of Medical and Surgical Practice on graduates of the University in Medicine and Surgery.

<sup>1</sup> These regulations are printed at pp. 170-174.

III. Before commencing his medical studies, each student must pass a Preliminary Examination in (1) English, (2) Latin, (3) Elementary Mathematics, and (4) Greek or French or German: provided always that, in the case of a candidate whose native language is not English, an examination in the native language of the candidate may be substituted for one in either French or German, and an examination in any other classical language for one in Latin or Greek.<sup>1</sup>

IV. The extent and standard of the Preliminary Examination shall be determined by the Joint Board of Examiners constituted under Ordinance, General No. 8—[Regulations as to Examinations]—in accordance with the terms of that Ordinance.

Under this Section the Joint Board have determined that for the Medical Preliminary Examination the papers set in Latin, Greek, and Mathematics, shall be the same as those set on the lower standard in these subjects in the Arts and Science Preliminary Examination; and that the papers set in English, French, and German, shall be of a lower standard than those set in these subjects in the Arts and Science Preliminary Examination. It shall be in the option of any candidate for the Medical Preliminary to take the papers set on the higher standard for the Arts Preliminary in any of the subjects. Excellence in one or more subjects will be permitted to compensate in some measure for deficiency in any of the other subjects. Such excellence may be shown either by attaining a high percentage of marks on the lower standard, or by passing on the higher standard. Candidates who, having taken English, Latin, Greek, Mathematics, or a Modern Language, on the higher standard, as prescribed by the Arts Ordinance for the Arts and Science Preliminary, have obtained a satisfactory percentage of marks, shall be held to have passed the Medical Preliminary in these subjects, provided that all the subjects required by the regulations of the General Medical Council are taken at the same time.

V. The Preliminary Examination is conducted in accordance with the provisions of Ordinance, General No. 8—[Regulations as to Examinations]—and, subject to the provisions of the immediately succeeding section hereof, the entire examination must be passed at one and the same time.

VI. A degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination; and the Joint Board of Examiners appointed under the provisions of Ordinance, General No. 8—[Regulations as to Examinations]—shall have power to determine what examinations, other than those for the degrees hereinbefore mentioned, shall be accepted, either in whole or in part, in place of the preliminary examination.

<sup>1</sup> The candidate for the Degrees of Bachelor of Medicine and Bachelor of Surgery must have been registered in the books of the General Medical Council at least five years prior to the date of his graduation. In order to be so registered he must transmit to James Robertson, Esq., the Scottish Branch Registrar, 1 George Square, Edinburgh, together with a printed form of application, which may be obtained from the Assistant-Clerk (Matriculation Office), a certificate of having passed the Preliminary Examination.

The Joint Board have issued the following rules under the heading—Examinations accepted as equivalents for the Preliminary in Medicine, provided always that the regulations of the General Medical Council regarding the registration of students of Medicine be complied with:—

1. In terms of the Medical Ordinances, “a Degree in Arts or in Science (not being a Degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination.”

2. Any Candidate who produces a Certificate of having passed the Preliminary Examination in Arts or Science in any Scottish University, either at the University Examination or through the Leaving Certificates of the Scotch Education Department, or partly at the University Examination, and partly through the Leaving Certificates, shall be held to have passed the Preliminary Examination for Medicine, provided that the Examination has included the specified subjects of General Education as required under the Regulations of the General Medical Council.

3. A Candidate who has obtained the Leaving Certificate (Honours or Higher Grade) of the Scotch Education Department in any subject recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

*The Regulation that all the subjects of the Examination shall be passed at one and the same time shall not be held to apply to either of the above cases, 2 and 3. But Candidates complying with these Rules (2 and 3) must obtain a University Certificate specifying the examinations passed by them which have been accepted as equivalents to the Preliminary, and must present said Certificate to the Medical Registrar in order to registration.*

*Further, each such Candidate when applying for said Certificate must, if he has not entered for any part of the Preliminary, produce a Matriculation Card from some one of the Scottish Universities.*<sup>1</sup>

4. For the Preliminary Examination in Medicine the Leaving Certificate in any Grade of the Scotch Education Department will be accepted in each subject as equivalent to the Preliminary Examination, subject to the regulation of the General Medical Council that all the four subjects required have been passed at the same time, except in so far as that regulation is modified by proviso (b), already referred to, and quoted in the foot-note to this page, and by the above rules, 2 and 3, of the Joint Board that give effect to that proviso.

<sup>1</sup> The Regulations of the General Medical Council published in 1893, under which the Joint Board have framed these rules, are as follows:—“(a) The Council will not in future accept any Certificate of pass in Preliminary Examination in General Education unless the whole of the subjects included in the Preliminary Examination required by the Council for Registration of Students of Medicine have been passed at the same time. (b) Provided that a Certificate of having passed a University Examination required for graduation in Arts, or a Senior or Higher Local University Examination, or a Senior Grade Examination of the Intermediate Education Board of Ireland, or the Leaving Certificate Examination (Honours and Higher Grade) of the Scotch Education Department, wherein the specified subjects of General Education are included, may be recognised for the purpose of registration.”

The proviso (b), in the opinion of the Board, authorises the exceptions recognised in the above rules 2 and 3.

*No Examinations conducted in Scotland, other than those of the Scotch Education Department, will be accepted as equivalent to the Preliminary Examinations in Medicine.*

5. OXFORD.—Responsions; Moderations.

CAMBRIDGE.—Previous Examination; Oxford and Cambridge Schools Examinations.

LONDON.—Matriculation Examination of the University of London.

DUBLIN, TRINITY COLLEGE.—Public Entrance Examination.

ROYAL UNIVERSITY OF IRELAND.—Entrance Examination.

VICTORIA UNIVERSITY.—The Preliminary Examination; the Entrance Examination in Arts.

6. The Examinations of Indian, Colonial, and Foreign Universities and Colleges accepted by the General Medical Council will also be accepted, viz.:—

UNIVERSITY OF (1) CALCUTTA, (2) MADRAS, and (3) BOMBAY.—Entrance Examination, Certificate to include Latin.

UNIVERSITIES OF (1) M'GILL COLLEGE, MONTREAL; (2) BISHOP'S COLLEGE, MONTREAL; (3) TORONTO; (4) TRINITY COLLEGE, TORONTO; (5) QUEEN'S COLLEGE, KINGSTON; (6) VICTORIA COLLEGE, UPPER CANADA; (7) HALIFAX, NOVA SCOTIA; and (8) FREDERICTON, NEW BRUNSWICK, Matriculation Examination.

UNIVERSITY OF MOUNT ALLISON COLLEGE, NEW BRUNSWICK.—Examination for a Degree in Arts.

UNIVERSITY OF KING'S COLLEGE, NOVA SCOTIA.—Matriculation Examination; Responsions.

DALHOUSIE COLLEGE AND UNIVERSITY, HALIFAX.—Matriculation and Sessional Examinations.

WESTERN UNIVERSITY OF ONTARIO.—Entrance Examination in Medicine, Certificate to include all the subjects required for Registration.

UNIVERSITY OF MANITOBA.—Previous Examination.

COLLEGE OF PHYSICIANS AND SURGEONS OF ONTARIO.—Preliminary Examinations, Certificate to include all the subjects required for Registration.

PROVINCIAL MEDICAL BOARD OF NOVA SCOTIA.—Matriculation Examination.

UNIVERSITY OF MELBOURNE.—Matriculation Examination.

UNIVERSITY OF SYDNEY.—Matriculation Examination.

UNIVERSITY OF THE CAPE OF GOOD HOPE.—Matriculation Examination; Examination for a Degree in Arts.

UNIVERSITY OF ADELAIDE.—Matriculation Examination; or its substitute, the Senior or Junior Public Examination, Certificate to include all the subjects required for Registration.

CODRINGTON COLLEGE (BARBADOES).—English Certificate for Students of two years' standing, and Latin Certificate, or "Testamur."

TASMANIAN COUNCIL OF EDUCATION.—Examination for the Degree of Associate of Arts, Certificate to include Latin and Mathematics.

UNIVERSITY OF NEW ZEALAND.—Entrance Examination.

UNIVERSITY OF OTAGO.—Preliminary Examination.



CHRIST'S COLLEGE, CANTERBURY, NEW ZEALAND.—Voluntary Examinations, Certificate to include all the subjects required for Registration.  
 CEYLON MEDICAL COLLEGE.—Preliminary Examination (Primary Class).  
 GERMANY AND OTHER CONTINENTAL COUNTRIES.—Gymnasial Abiturienten-Examen, and corresponding Entrance Examinations to the Universities.

7. In the case of Candidates for the Medical Preliminary Examination, who hold qualifications from Foreign or Colonial Bodies, other than Universities whose certificates are not included in the list of Equivalent Examinations issued by the Joint Board, a Committee in each University, consisting of the Deans of the Faculties of Arts, Science, and Medicine, are empowered to accept such certificates, if they deem them sufficient, provided that all such cases are reported to the Joint Board at their meeting next following.

#### PROFESSIONAL EDUCATION.

VII. Candidates shall be admitted to the degree of Bachelor of Medicine and Bachelor of Surgery only after they have fulfilled the following conditions:—

1. The candidate must have been engaged in medical study for at least five years.
2. In each of the first four years the candidate must have attended at least two courses of instruction, in one or more of the subjects of study specified in Sub-section 4 hereof—each course extending over a session of not less than five months, either continuous or divided into two terms; or, alternatively, one such course, along with two courses, each extending over a session of not less than two and a half months.
3. During the fifth or final year the candidate shall be engaged in clinical study for at least nine months at one or more of such public hospitals or dispensaries, British or Foreign, as may be recognised for the purpose by the University Court.
4. The candidate must, during his curriculum, have attended a course or courses of instruction in each of the following subjects of study, including such examinations as may be prescribed in the various classes, viz.:—

- |  |   |   |
|--|---|---|
| 1. ANATOMY, - - - - -  | { | During a course of not less than five months.         |
| 2. PRACTICAL ANATOMY, - - - - -  |   | During two courses of not less than five months each. |
| 3. CHEMISTRY, - - - - -  | { | During courses of not less than five months.          |
| 4. MATERIA MEDICA and THERAPEUTICS, - - -  |   |   |
| 5. PHYSIOLOGY OF INSTITUTES OF MEDICINE, - - -   |   |   |
| 6. PRACTICE OF MEDICINE, - - - - -   |   |   |
| 7. SURGERY, - - - - -  |   |   |
| 8. MIDWIFERY and the DISEASES peculiar to WOMEN and INFANTS. Two courses of Midwifery, of three months each, provided different departments of Obstetric Medicine be taught in each of the courses, shall be reckoned equivalent to a course of not less than five months, - - - - - |   |   |
| 9. PATHOLOGY, - - - - -  |   |   |



- |   |   |
|---|---|
| 10. PRACTICAL CHEMISTRY, - - - - -  | } During courses of not less than<br>two and a half months. |
| 11. PHYSICS (including the DYNAMICS OF SOLIDS,<br>LIQUIDS, and GASES, and the RUDIMENTS<br>OF SOUND, HEAT, LIGHT, and ELECTRICITY), - - - - - |   |
| 12. ELEMENTARY BOTANY, - - - - -  |   |
| 13. ELEMENTARY ZOOLOGY, - - - - -   |   |
| 14. PRACTICAL PHYSIOLOGY, - - - - -   |   |
| 15. PRACTICAL PATHOLOGY, - - - - -  |   |
| 16. MEDICAL JURISPRUDENCE and PUBLIC HEALTH,  |   |

Provided always, in so far as regards the University of Glasgow, that—

(a) It shall be the duty of the Senatus to determine from time to time [after receiving through the Faculty of Medicine the opinion of the Board of Studies] the number of meetings of which such courses shall consist, and in what cases two half courses shall be deemed equivalent to a full course; and to report the determination to the University Court for its approval.<sup>1</sup>

(b) It shall be the duty of the Professors and Lecturers to submit to the Senatus [after 1st October, 1894, the Board of Studies] annually at the end of the winter session a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. [The Board of Studies shall transmit the schemes to the Faculty of Medicine, who shall submit them to the Senate with such observations as they may think fit to make thereon.] The Senatus shall transmit such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.<sup>1</sup>

(c) The University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

5. The candidate must have attended for at least three years the Medical and Surgical Practice of a General Hospital at Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons, and is recognised for the purpose by the University Court.<sup>2</sup>
6. The candidate must have attended Clinical Surgery during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical Surgery, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary surgeons of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.

<sup>1</sup>The Universities Commissioners, on 18th November, 1893, ordained that for the better carrying out of the purposes of these provisos the Senate should institute a Board or Boards of Studies in the Faculty of Medicine. See Section I., Ordinance No. 42, which received the approval of Her Majesty in Council on 28th May, 1894. The provisions of this supplementary Ordinance have, in the text, been combined with the provisions of the original Ordinance, by means of square brackets.

<sup>2</sup>On 7th October, 1892, the University Court recognised every General Hospital in the United Kingdom which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons.

7. The candidate must have attended Clinical Medicine during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical Medicine or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary physicians of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.
8. The candidate must have attended a course of instruction in Mental Diseases, of such duration, and so apportioned between lectures, demonstrations, and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time determine.
9. The candidate must have attended a course of twenty-five meetings on Practical Pharmacy in a University or recognised School of Medicine, or have dispensed drugs for a period of three months in an hospital or dispensary, or in an establishment recognised by the Pharmaceutical Society.
10. The candidate must have attended, for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or of a physician or surgeon, or of a member of the London or Dublin Society of Apothecaries. He must have acted as clerk in the medical and dresser in the surgical wards of a public hospital; and must also have availed himself, to such an extent as may be required by the Senatus, with the approval of the University Court, of opportunities of studying, at an hospital or dispensary, *Post-mortem* Examinations, Fevers, Diseases of Children, Ophthalmology, or such other special departments as may from time to time be determined.
11. The candidate must have attended, under the superintendence of a registered medical practitioner, twelve cases of labour, or such additional number as the Senatus, with the sanction of the University Court, may from time to time determine; or have attended for three months the practice of a lying-in hospital, or of the maternity department of a general hospital or other public charitable institution, and have conducted personally six, or such an additional number of cases of labour as the Senatus, with the approval of the University Court, may from time to time determine.
12. The candidate must have been properly instructed in Vaccination at a Public Vaccination Station, by a Public Vaccinator, authorised by the proper Government Authority to grant Certificates of Proficiency in Vaccination.<sup>1</sup>
13. No candidate for a degree shall be deemed to have attended a class as part of the Curriculum necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

VIII. With respect to the Places and Institutions at which the studies of the Candidate may be prosecuted, the following Regulations shall have effect :—

<sup>1</sup> The recognised Vaccine Departments in Glasgow are—Western Infirmary, Royal Infirmary, and Faculty of Physicians and Surgeons.

1. Two of the five years of medical study must be spent in the University of Glasgow, each year of study including always the attendances specified in Section VII., Sub-section 2.
2. The remaining three years may be spent in any University of the United Kingdom, or in any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such Medical Schools or under such Teachers as may be recognised for the purpose by the University Court, each year of study during the first four years including always the attendances specified in Section VII., Sub-section 2.
3. Of the subjects of study specified in Section VII., Sub-section 4. not less than eight must be taken in the University of Glasgow. or (subject always to the provisions as to attendance contained in the immediately preceding sub-sections) in some other University of the United Kingdom, or in some Foreign or Colonial University entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court, or in a College incorporated with, or affiliated to a University entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court: Provided always that where in any of said subjects of study two or more courses are required, the taking of one of those courses shall constitute a taking of the subject for the purpose of this sub-section.
4. The remainder of such subjects of study may (subject always as aforesaid) be taken in such Medical Schools or under such Teachers as may be recognised for the purpose by the University Court.
5. All Candidates, not Matriculated Students of the University, availing themselves of the permission to attend the Lectures of Extra-Academical Teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a Fee of the same amount as the Matriculation Fee paid by Students of the University, and having, in respect of such payment, a right to the use of the Library of the University.
6. The Fee for attendance, for purposes of graduation, on the courses of instruction of recognised Extra-Academical Teachers in Glasgow, shall be not less than the amount exigible for the corresponding courses in the University.
7. The University Court shall not recognise as qualifying for examination in any of the subjects specified in Section VII., Sub-section 4, the class of any teacher who is at the time a teacher of more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach two subjects:—Provided always that a Professor or other teacher in any endowed public College or Institution, who by the terms of his appointment is required to teach more than one subject of Medical Study therein, may be recognised under Sub-section 2 of this section, as a teacher of any one of the subjects which he teaches.
8. A teacher, attendance on whose course of instruction shall, before the date of the approval of this Ordinance by Her Majesty in

Council, have been recognised for the purposes of graduation in the University, shall not require to obtain a new recognition from the University Court; and attendance on the course of instruction of every such teacher may continue to be recognised as heretofore.

9. It shall be in the power of the University Court, if it shall see cause, at any time to withdraw or suspend any recognition which it may have granted.

IX. In the University of Glasgow it shall be the duty of the Professors of the subjects specified in Section VII., Sub-section 4 hereof (except Practical Anatomy and such other subjects as the Senatus, with the approval of the University Court, may from time to time determine), so to conduct the courses that Students may receive instruction sufficient for graduation in any one of the said subjects by attendance on one course of five or six months, or of two and a half or three months, as the case may be.<sup>1</sup>

X. If any candidate shall, before presenting himself for his Preliminary Examination, have attended in any University of the United Kingdom, or in any University or Institution specially approved, or under any Teacher specially recognised for the purpose by the University Court, a course or courses of instruction in Physics, Chemistry, Botany, or Zoology, equivalent in the judgment of the Senatus to the qualifying course in the same subject in the University of Glasgow, such attendance shall (notwithstanding anything hereinbefore ordained) be held as entitling him to be examined in these subjects; and if the candidate shall have attended such course or courses in each of the said subjects, he shall be held to have completed his first year of Medical Study: Provided always that the evidence of such attendance at such equivalent course or courses shall be presented to the Senatus at the time when the candidate presents himself for his Preliminary Examination; and the Senatus shall, if satisfied, grant a certificate to that effect.

#### PROFESSIONAL EXAMINATION FOR THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY.<sup>2</sup>

XI. Each candidate shall be examined both in writing and orally, and also clinically where the nature of the subject admits, in the following divisions, viz.:—*First*, in Botany, Zoology, Physics, and Chemistry; *Second*, in Anatomy, Physiology, and *Materia Medica* and Therapeutics; *Third*, in Pathology and Medical Jurisprudence and Public Health;

<sup>1</sup> Doubt being entertained as to the construction of this Section, the question was submitted to the Universities Commissioners, and evoked from them the following deliverance:—

It is not intended to require of the Professor a complete course of instruction by lectures during each session, or to limit the examinations for degrees to subjects which shall be discussed in the lectures of the Professor at the time that the student attended the course. The word "instruction," as used in this Section, is to be held to include lectures upon such parts of the subject as the Professor may be able to undertake, supplemented by directions as to the use of text-books or other sources of information for the remainder of the subject; and it is also intended that the examinations may be taken over the whole field, even when the Professor has not been able to include it all in his course of lectures.

<sup>2</sup> For Table of Fees and dates of examinations see page 175.

*Fourth*, in Surgery and Clinical Surgery, Practice of Medicine and Clinical Medicine, and Midwifery.

In subjects which admit of practical instruction, the examination shall be such as to test the practical acquirements of the candidate.

Provided always that if a candidate have obtained in a University of the United Kingdom, or other University specially recognised for the purpose by the University Court, a Degree in Science or in Arts, granted in either case after a course of study and an examination in Botany, Zoology, Physics, and Chemistry, he shall be held to have passed his examinations in the said subjects.

XII. Candidates who profess themselves ready to submit to an examination in the subjects comprised in the first division, viz. :—Botany, Zoology, Physics, and Chemistry, may be admitted to examination in all or any two of these subjects at any examination held after they have attended a full course in each of the subjects professed.

XIII. Candidates who have passed their examinations in the subjects comprised in the first division may be admitted to examination in the second division at the end of the third winter session.

Provided that candidates who so desire may postpone their examination in *Materia Medica* and Therapeutics until the close of the summer session following.

XIV. Candidates who have passed their examinations in the subjects comprised in the first and second divisions may be admitted to examination in the third division at the end of the fourth winter session.

Provided that candidates who so desire may postpone their examination in Medical Jurisprudence and Public Health until the close of the summer session following.

XV. Candidates who have passed their examinations in the subjects comprised in the first, second, and third divisions may be admitted to examination in the fourth or final division, when they have completed the fifth year of study.

XVI. If any candidate at these examinations be found unqualified in one or more subjects he shall not again be admitted to examination unless he has pursued his medical studies for such time, and subject to such conditions, as the Faculty of Medicine may prescribe.

XVII. If any candidate at these examinations be found to have passed in one or more subjects with sufficient merit, he shall not be liable to re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects comprised in the same division as hereinbefore specified.

XVIII. Every candidate must deliver, on or before such day as the Senatus may from time to time determine, to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation, and that he will not be, on the day of graduation, under articles of apprenticeship to any surgeon or other master.

XIX. After the candidate has satisfied the Examiners, the Dean of the Faculty of Medicine shall lay the proceedings before the Senatus, by whose authority the candidate shall be admitted, on such day as the



Senatus may from time to time appoint, to the Degrees of Bachelor of Medicine and Bachelor of Surgery, on payment of the required fees.<sup>1</sup>

XX. Candidates for graduation shall produce evidence of their having conformed to the Regulations which were in force at the time they commenced their Medical Studies: provided that any student who began his medical studies before 1st January, 1892, shall be entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before<sup>2</sup> or after that date.

#### PROFESSIONAL EXAMINATION FOR THE DEGREE OF DOCTOR OF MEDICINE.

- XXI. 1. Subject to the conditions hereinafter specified, the Degree of Doctor of Medicine shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.
2. Each candidate for the Degree of Doctor of Medicine shall be required to pass an examination in Clinical Medicine and in such of its special departments as the Senatus, with the approval of the University Court, by Regulations framed from time to time, shall determine; and he may present himself for examination in Clinical Medicine at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.
3. Each candidate for the Degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects which are exclusively Surgical; and the Thesis, accompanied by a declaration signed by the candidate, that the work has been done and the Thesis composed by himself, shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.
4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such degrees on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to the examination in Clinical Medicine at

<sup>1</sup> For Table of Fees and dates of examinations see page 175.

<sup>2</sup> These regulations are printed at pp. 170-174.



any period of examination after he has received such Degrees; but the Degree of Doctor of Medicine shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively surgical, and unless his Thesis in the judgment of the Faculty of Medicine is of exceptional merit.

#### PROFESSIONAL EXAMINATION FOR DEGREE OF MASTER OF SURGERY.

- XXII. 1. Subject to the conditions hereinafter specified the Degree of Master of Surgery shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged, subsequently to his having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in practice other than practice restricted to Medicine.
2. Each candidate for the Degree of Master of Surgery shall be required to pass an examination in the following subjects:—Surgical Anatomy, Operations upon the dead body, and Clinical Surgery, and in such of the special departments of Clinical Surgery as the Senatus, with the approval of the University Court, by Regulations framed from time to time, may determine; and he may present himself for examination in these subjects at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.
3. Each candidate for the Degree of Master of Surgery shall submit, for the approval of the Faculty of Medicine, a Thesis on any branch of knowledge comprised in the second, third, or fourth Examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects that are exclusively medical; and the Thesis, accompanied by a declaration signed by the candidate that the work has been done and the Thesis composed by himself, shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.
4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such degrees, on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the

Senatus, be admitted to examination in the subjects specified in Sub-section 2 of this Section, at any period of examination after he has received such Degrees; but the Degree of Master of Surgery shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in practice which has not been exclusively medical, and unless his Thesis in the judgment of the Faculty of Medicine is of exceptional merit.

#### FEEES.

XXIII. The fee to be paid for the Degrees of Bachelor of Medicine and Bachelor of Surgery shall be twenty-two guineas, and the proportion of this sum to be paid by a candidate at each division of the examination shall be regulated from time to time by the University Court. The fee to be paid for the Degree of Doctor of Medicine shall be ten guineas, exclusive of any stamp duty which for the time may be exigible. The fee to be paid for the Degree of Master of Surgery shall be ten guineas.

#### EXAMINERS.

XXIV. The Examiners for graduation in Medicine in the University of Glasgow shall be the Professors in that University, together with such Lecturers in the University and such additional Examiners, to be appointed by the University Court, as the University Court shall deem necessary. Provided that the Court shall make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall not be a Professor or Lecturer in the University. The examinations shall be conducted in writing and orally and also clinically, when the nature of the subject admits, under regulations framed by the Senatus subject to the approval of the University Court.

#### REGULATIONS IN FORCE PREVIOUS TO 1ST JANUARY, 1892.

Three Medical Degrees are conferred by this University, viz.:—Bachelor of Medicine (M.B.); Master in Surgery (C.M.); and Doctor of Medicine (M.D.); all of which are recognized by the Medical Acts as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public Medical Service.

The Degrees of Bachelor of Medicine and Master in Surgery may be obtained by candidates of the age of 21 years who have complied with the regulations as to Education and Examination.

The Degree of Master in Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, nor shall the Degree of Bachelor of Medicine be conferred on any one who does not at the same time obtain the Degree of Master in Surgery.

The following rules and directions apply to the Degrees of Bachelor of Medicine and Master in Surgery:—

## PROFESSIONAL EDUCATION.

1. *Duration and Constitution of the Curriculum.*—No one shall be admitted to the Degree of Bachelor of Medicine or Master in Surgery who has not been engaged in medical and surgical study for four years,—the medical session of each year, or *Annus Medicus*, being constituted by at least two courses of not less than one hundred lectures each, or by one such course and two courses of not less than fifty lectures each; but in the case of the Clinical Courses, it shall be sufficient that the lectures be given at least twice a week during the prescribed periods.

One at least of the four years of medical and surgical study above required must be in the University of Glasgow.

Another of such four years must be either in the University of Glasgow, or in some other University entitled to give the Degree of Doctor of Medicine.

Attendance during at least six winter months on the medical or surgical practice of a general hospital which accommodates at least eighty patients, and during the same period on a course of Practical Anatomy, may be reckoned as one of such four years, and to that extent shall be held equivalent to one year's attendance on courses of lectures, as above prescribed.

One year's attendance on the Lectures or Teachers of Medicine in the Hospital Schools of London, or in the School of the College of Surgeons in Dublin, may be reckoned as one of such four years; and to that extent shall be held as attendance on courses of lectures as above prescribed.

Attendance on the lectures of any private Teacher or Teachers of Medicine whose lectures have, by regulation of the University Court, with consent of the Chancellor of the University, been recognized for the purpose of graduation in the University, may be reckoned in place of the year's attendance last above mentioned, or as part thereof, as the case may be.

Candidates may, to the extent of four of the departments of medical study enumerated in "required courses of instruction," attend in such year or years of their medical and surgical studies as may be most convenient to them, the lectures of the Teachers of Medicine specified in the two immediately preceding paragraphs.<sup>1</sup>

All candidates availing themselves of the permission to attend the lectures of private Teachers, and not being at the time matriculated students of the University, must, at the commencement of the year of such attendance, enrol their names in a book kept by the University for that purpose, paying a fee of one-half the amount of the matriculation fee paid by students of the University; but they shall not be thereby entitled to any of the privileges of a matriculated student of the University.

The fee for attendance on the lectures of any private Teacher, with a view to graduation, shall not be of less amount than that exigible by Medical Professors of the University for the same course of instruction. (*The fees must be paid at the commencement of the course.*)

No attendance on Lectures shall be reckoned, if the Teacher gives instruction in more than one of the prescribed branches of study, except in those cases where Professors of the University are at liberty to teach more than one branch.

<sup>1</sup> In Provincial Medical Schools where there are no Lecturers recognized by the University Court, a candidate can complete only one *Annus Medicus*, constituted by attendance at a General Hospital accommodating not fewer than 80 patients, along with a course of Practical Anatomy.

2. *Required Courses of Instruction.*—Every candidate for the Degrees of Bachelor of Medicine and Master in Surgery shall give sufficient evidence by certificates:—

- (1.) That he has studied each of the following departments of medical science, viz.:—

ANATOMY, - - - - -	-	}	During courses including not less than one hundred lectures.
CHEMISTRY, - - - - -	-		
MATERIA MEDICA and PHARMACY, - - -	-		
INSTITUTES OF MEDICINE or PHYSIOLOGY, -	-		
PRACTICE OF MEDICINE, - - - - -	-		
SURGERY, - - - - -	-	}	During courses including not less than one hundred lectures.
MIDWIFERY and the DISEASES peculiar to WOMEN and CHILDREN; two courses of Midwifery, of three months each, <sup>1</sup> being reckoned equivalent to a six months' course, provided different departments of Obstetric Medicine be taught in each of the courses, - - -			
PATHOLOGICAL ANATOMY, during a three months' course of lectures, together with a supplemental course of Practice of Medicine or Clinical Medicine; or a course of not less than one hundred lectures on General Pathology.			
PRACTICAL ANATOMY, - - - - -	-	-	Six months.
PRACTICAL CHEMISTRY, - - - - -	-	-	Three months.
PRACTICAL MIDWIFERY, - - - - -	-	}	Three months on the indoor practice of a Lying-in Hospital, or presence at not less than twelve labours, at least three of which must be conducted personally by the candidate under the direct supervision of a Registered Practitioner.
CLINICAL MEDICINE, - - - - -	-		
CLINICAL SURGERY, - - - - -	-	}	During courses of six months, or two courses of three months; lectures being given at least twice a week.
MEDICAL JURISPRUDENCE, - - - - -	-		
BOTANY, - - - - -	-	}	During courses including not less than fifty lectures.
ZOOLOGY WITH COMPARATIVE ANATOMY, -	-		

- (2.) That he has attended for at least two years the medical and surgical practice of a general hospital either at Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons.

- (3.) That he has attended, during a course of not less than fifty hours' instruction, the class of Practical Materia Medica in the University of Glasgow; or a similar class in a University or School of Medicine, attendance on which is recognized by the Ordinance; or a similar class conducted by a teacher recognized by the University Court under the Ordinance; or that he has been engaged for at least three months, by apprenticeship or otherwise, in compounding and dispensing drugs at the laboratory of an hospital, dispensary, member of a Surgical College or

<sup>1</sup> The Fee for each course of Midwifery of three months is £2 2s.

Faculty, of a licentiate of the London or Dublin Society of Apothecaries, or of a member of the Pharmaceutical Society of Great Britain. [Students are recommended to take the class of Pharmacology and Practical Pharmacy in the summer before their attendance on the course of *Materia Medica*; but attendance on such a course cannot be substituted for attendance on the course of systematic Lectures on *Materia Medica*, which must be taken before the third Professional Examination.]

- (4.) That he has attended for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or of a physician, surgeon, or member of the London or Dublin Society of Apothecaries.

**VACCINATION.**—The candidate must produce a certificate from a recognized Vaccination department in an hospital, dispensary, or other public institution, that he has performed the operation successfully under the Teacher's supervision; that he is familiar with the different stages of the vaccine vesicle, and with the mode of preserving lymph, and is generally well instructed in the subject.<sup>1</sup>

#### PROFESSIONAL EXAMINATIONS.

By orders of Her Majesty in Council, dated 13th August, 1877, 23rd August, 1883, 27th January, 1885, and 26th March, 1885, the following are the arrangements for Professional Examinations:—

1. Every candidate for the Degrees of Bachelor of Medicine and Master in Surgery shall be examined both in writing and *viva voce*—first, on Chemistry, Botany, and Natural History; second, on Anatomy and Physiology; third, on Regional Anatomy, and *Materia Medica* and Pharmacy; and fourth, on Surgery, Clinical Surgery, Medicine, Clinical Medicine, Pathology, Midwifery, and Medical Jurisprudence. The Examination in Chemistry shall include Practical Chemistry; and the Examinations in Anatomy and Physiology shall include Practical Anatomy, Histology, and Practical Physiology; and the Examination in Surgery shall include Operative Surgery.
2. Students may appear for examination in the first of the foregoing divisions of subjects who have completed their attendance on the required courses during one winter and one summer session: provided always that students shall not be admitted to such examination at an earlier date than the period of examination immediately preceding their second winter session of professional study; and that students who commenced their medical studies in the summer session shall not be admitted to a degree in medicine unless their course of study, subsequent to the completion of the summer session in which they commenced their medical studies, shall not be less than the minimum course of four years prescribed by this Ordinance.
3. Students who have passed the first examination may appear for examination in the second division of subjects, after having

<sup>1</sup> The recognized Vaccine Departments in Glasgow are—Western Infirmary, Royal Infirmary, and Faculty of Physicians and Surgeons.



completed their attendance on the requisite courses (including those of the subjects of examination) after the lapse of two winter and three summer sessions from the time of the commencement of their studies: provided always that students who have commenced their medical studies with a winter session may appear for examination in the second division of subjects, after the lapse of two winter and two summer sessions from the time of the commencement of their studies.

4. Students who have passed the two previous examinations may appear for examination in the third division of subjects at any of the terms fixed for examination by the Senate, after the conclusion of the third winter session of attendance upon Medical Classes (including those of the required subjects).
5. Students who have passed the examinations in the subjects of the three previous divisions may appear for examination in the subjects of the fourth division at the first term for the final examination after the conclusion of their curriculum of study.

In addition, the following regulations will be observed:—

1. The examinations shall be conducted by written papers and by oral examinations. A practical knowledge of the subject is also required.
2. Candidates must produce certificates of satisfactory attendance on the courses belonging to each division before presenting themselves for these examinations, and no candidate is allowed to enrol himself for the Second, Third, or Fourth examination without having passed the immediately preceding examination.
3. Previous to appearing for the final examination, the candidate must produce a declaration in his own handwriting that on the day of graduation he will have completed his twenty-first year and will not be under articles of apprenticeship.
4. At the professional examinations candidates will as far as possible be examined orally in the alphabetical order of their surnames.
5. If any candidate, on examination, be found unqualified, he shall not be again admitted to examination unless he shall have completed another year of medical study, or such portion of another year as may be fixed by the Examiners when he is found unqualified.
6. Every candidate must matriculate at the University for the year in which he enters for professional examination or for graduation.

The examinations are conducted by the Professors of the Faculty of Medicine, together with the other Examiners appointed by the University Court.

#### DEGREE OF DOCTOR OF MEDICINE.

The Degree of Doctor of Medicine may be conferred on any candidate who has obtained the degree of Bachelor of Medicine, and is of the age of twenty-four years, and has been engaged, subsequently to his having obtained the degree of Bachelor of Medicine, for at least two years in attendance on an hospital, or in the Military or Naval medical service, or in medical or surgical practice: Provided always that the degree of



# TABLE OF EXAMINATIONS FOR DEGREES IN MEDICINE TO BE HELD DURING SESSION 1894-95.

Examination.	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date. 1	Fee.	Dates of Written Examinations and Hours at which the different Papers will be set. Printed Schedules with detailed instructions for filling up may be obtained from the Assistant-Clerk (Matriculation Office). The Professional Oral Examinations follow immediately after the Written.				
First Professional, }	20th Sept., 1894,	£5 5 0 <sup>2</sup>	Mon., 8th Oct., 1894,	Zoology -	- 10-12 noon.	Botany -	12.30-2.30 p.m. Chemistry 3-5 p.m.
Second Professional, }	20th Sept., 1894,	5 5 0 <sup>2</sup>	Tues., 9th "	Physics -	- 10-12 noon.		
Third Professional, }	20th Sept., 1894,	5 5 0	Tues., 9th "	"	"	Physiology -	12.30-2.30 p.m. Anatomy 3-5 p.m.
First Professional, }	6th March, 1895,	5 5 0 <sup>2</sup>	Wed., 10th "	Regional Anatomy	10-12 noon.	Materia Medica	12.30-2.30 p.m. Pathology 3-5 p.m.
Second Professional, }	6th March, 1895,	5 5 0 <sup>2</sup>	Mon., 25th Mar., 1895,	Zoology -	- 10-12 noon.	Botany -	12.30-2.30 p.m. Chemistry 3-5 p.m.
Third Professional, }	6th March, 1895,	5 5 0	Tues., 26th "	Physics -	- 10-12 noon.		
			Tues., 26th "	"	"	Physiology -	12.30-2.30 p.m. Anatomy 3-5 p.m.
			Wed., 27th "	Regional Anatomy	10-12 noon.	Materia Medica	12.30-2.30 p.m. Pathology 3-5 p.m.
			Mon., 10th June (Clinical Examinations begin).	Fri., 5th July (Operative Surgery Examination begins).			
			Mon., 8th July, "	Materia Medica	at 10 a.m.	Medical Jurisprudence	at 1 p.m.
			Tues., 9th "	Practice of Medicine	at 10 a.m.	Pathology -	at 1 p.m.
			Wed., 10th "	Surgery -	- at 10 a.m.	Midwifery -	at 1 p.m.
			The Oral Examinations will begin about the 11th July.				

<sup>1</sup> When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be enrolled for examination. A Candidate is not held to be enrolled for examination until his Name is entered, the Fee paid, and all the necessary Certificates, etc., lodged.

<sup>2</sup> For Candidates under the new Ordinance the Fee is £5 ts.  
For dates in regard to Medical Preliminary Examination, see page 133.

Doctor of Medicine shall not be conferred on any person, unless he be a graduate in Arts within the fifth section of the Ordinance, or unless he shall have passed a satisfactory examination in Greek, and in Logic or Moral Philosophy, and in one, at least, of the following subjects—namely, French, German, Higher Mathematics, Natural Philosophy, and Natural History. Provided also that each candidate for the degree of Doctor of Medicine shall present an Inaugural Dissertation composed by himself to be approved by the Senatus Academicus. Such Dissertations or Theses<sup>1</sup> must be lodged with the Assistant-Clerk (Matriculation Office), on or before 20th March, 20th June, or 20th October. No Thesis will be approved of unless it gives evidence of original observation, or, if it deal with the researches of others, gives a full statement of the literature of the question, with accurate references and critical investigation of the views or facts cited: mere compilations will in no case be accepted. The fees for the Degree of M.D. amount to £15 8s. (including the sum of £10 3s. for Government stamp, etc.).

#### DIPLOMA IN PUBLIC HEALTH.

The following are the regulations as to instruction in Public Health and as to examinations for the Diploma in Public Health:—

I. The University provides instruction in Public Health by Laboratory training and otherwise.

II. The subjects of instruction are:—

Duties of Health Officer, Air and Ventilation, Food and its Adulterations, Water and Water Supply, Sewerage and Drainage; Construction of Hospitals, Public Buildings, and Dwellings; Overcrowding, Manufactories, Insalubrious Trades, Cemeteries, Nuisances, Quarantine, Disinfectants and Deodorizers, Outbreaks of Zymotic Diseases; Climate, Topographical and Seasonal: its influences in relation to Health and Disease; Geographical Distribution of Diseases; Knowledge of leading Sanitary Acts of Parliament, Vital Statistics.

III. The Laboratory training is provided in a special department of the Chemical Laboratory. Practical instruction is given in the following subjects:—

(a) *Water*.—Qualitative examination: Colour, odour, and suspended matters. Quantitative examination: ammonia, albuminoid ammonia, nitric and nitrous acids, sulphuric and phosphoric acids, chlorine, total solids, lime, magnesia, alkalies, silica in solution, the hardness before and after boiling; Clark's process for softening water; explanations and illustrations of methods employed to purify water by chemical processes and by filtration.

(b) *Air*.—Qualitative and quantitative examination for gaseous impurities and suspended matters.

<sup>1</sup> Candidates are requested to have their Theses bound before sending them in.

(c) *Water and Air*.—Bacteriological methods of examination. Micro-organisms, moulds, and fungi, and their identification. Pure cultures.

(d) *Soils*.—Nature and examination of soils; ground-water, sewage.

(e) *Antiseptics and Disinfection*.—The relative value of various antiseptics and disinfectants and the methods of employing them.

(f) *Foods*.—Quantitative examination of milk, butter, tea, coffee, sugar, alcoholic beverages, aerated waters for poisonous substances. Qualitative examination of bread and flour, of cereal, farinaceous, and other food substances and condiments; chemical and microscopic examination for common adulterations, colouring matters, animal organisms, and poisonous substances; examination of food substances for fungoid growths, and poisonous substances resulting from the same.

(g) *Diseases of Animals*.—The Pathology of Diseases of Animals transmissible to Man.

IV. The Diploma in Public Health may be obtained by any Bachelor of Medicine of this University on his passing the required examination, provided that a period of not less than twelve months shall have elapsed between his taking the degree of M.B. and his admission to the examination or any part thereof.

V. Every candidate for a Diploma in Public Health shall give sufficient evidence by certificates:—

1. That after obtaining the Degree of M.B. he has attended during six months practical instruction in a Laboratory or Laboratories, approved of by the University, in which Chemistry, Bacteriology, and the Pathology of the Diseases of Animals transmissible to Man are taught.

2. That he has, during a period of six months, after obtaining the degree of M.B., either practically studied the duties of out-door Sanitary work under the Medical Officer<sup>1</sup> of Health of a County or large Urban District, or else has himself held an appointment as Medical Officer of Health under conditions not requiring the possession of a Special Sanitary Diploma.

3. That he has attended the Clinical Practice of a Hospital for Infectious Diseases recognized by the University, provided that such a course of instruction may have

<sup>1</sup> The certificate of an Assistant Officer of Health of a County or a large Urban District may be accepted, provided the Medical Officer of Health of the County or District consents to the Assistant Officer giving such instruction.

been taken as part of the curriculum for his degree of M.B.

- VI. The examination shall be conducted by Examiners specially qualified ; it shall be written, practical, and oral ; and shall extend over not less than four days, one of which shall be devoted to practical work in a Laboratory, and one to practical examination in, and reporting on, subjects which fall within the special out-door duties of a Medical Officer of Health.

The subjects of examination are as follows :—

A. Physics, Meteorology, and Climatology, with special reference to Heat and Ventilation, Water supply, Drainage, and the Geographical distribution of Disease.

B. Chemistry and Biology.—The composition and analysis (qualitative and quantitative) of Air, Water, and Sewage; detection of poisons and recognition of injurious pigments; the composition and adulteration of foods and beverages; diseased and putrid food; Bacteriology; microscopic examination of Air, Water, Foods, and Beverages.

C. General Hygiene—Duties of Medical Officer of Health; Nature and Construction of Dietaries; Sanitary arrangements of Houses, Hospitals, Workshops, Factories, Towns, including Interpretation of Plans; Ventilation, Water Supply, Sewerage, Disposal of the Dead; Ætiology, Prophylaxis, and Control of Infectious Diseases; Unhealthy occupations; Practical examination and written report on some selected area or premises.

D. Sanitary Law and Vital Statistics.—Laws relating to Public Health, Vaccination, and Registration of births, marriages, and deaths; Methods and results of Vital Statistics, chiefly in relation to the birth, marriage, and death rate of communities.

- VII. The Fee for the course of instruction shall be £10 10s., and for the Examination £5 5s.

#### GRADUATION.

The terms for conferring Medical and Surgical Degrees in Session 1894-95 are 8th November, 1894; 7th February, 1895; 16th April, 1895; and 25th July, 1895.

Candidates proceeding to Graduation, if not already Members of the General Council of the University, are required by the Act, 44 and 45 Vict. Ch. 40, to pay to the Registrar of the General Council the Registration Fee, and furnish to him the particulars required for their enrolment in the General Council. This should in all cases be done at least two clear days before the day of Graduation.

In accordance with the Promissory Oaths Act, 1868, a Declara-

tion in the following English form is now substituted for the Latin Oath, or *Sponsio Academica*, formerly required to be taken and subscribed by every candidate on Graduation :—

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge. And I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

#### REGISTRATION OF MEDICAL PRACTITIONERS.

Graduates should register as soon as possible with the Branch Registrar for Scotland, at 1 George Square, Edinburgh. Fee £5. Additional Qualifications, 5s. each. Forms of application may be had from the Assistant-Clerk (Matriculation Office).

#### 4.—GRADUATION IN LAW.

Two Degrees in Law are conferred, after examination, by the University of Glasgow, viz., Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

By regulation of the Faculty of Advocates, any one who has obtained the Degree of LL.B. from a Scottish University is held qualified in General Scholarship and Law with a view to admission to the Bar, without examination or other evidence of such qualification.

By the Law Agents Act, 36 and 37 Vict., c. 63, the holder of a Degree in Law or in Arts of a University in Great Britain or Ireland, granted after examination, is qualified to apply for admission as a Law Agent after an apprenticeship of three years, instead of five, as required in the ordinary case; and by act of Sederunt of 20th July, 1878, any applicant who holds the Degree of LL.B. or of B.L. of any Scottish University is exempted from any examination in Law before the Examiners of Law Agents, excepting only on forms of Process, Civil and Criminal, and a similar provision is contained in the Act of Sederunt of 18th March, 1893.

#### Degree of LL.B.

The following are the provisions of Ordinance No. 39, General No. 11, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, in session 1894-95, shall begin their course of study with a view to Graduation in Law.

I. No one shall be admitted to examination as a Candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a Graduate in Arts of one of the Universities of the United Kingdom; or of any Foreign or Colonial University specially recognized for the purpose by the University Court.

II. The course of study in Law for the Degree of Bachelor of Laws shall include the following subjects:—

- (1) Jurisprudence, General or Comparative, during a course of not less than forty lectures.
- (2) The Law of Nations or Public International Law, during a course of not less than forty lectures.
- (3) Civil Law, during a course of not less than eighty lectures.
- (4) Law of Scotland, or Law of England, during a course of not less than eighty lectures.
- (5) Constitutional Law and History, during a course of not less than eighty lectures.
- (6) Conveyancing, during a course of not less than eighty lectures; or Political Economy, or Mercantile Law, during a course of not less than eighty lectures.
- (7) Any two of the following subjects, namely:—International Private Law, Political Economy, Administrative Law, and Forensic Medicine; in each case during a course of not less than forty lectures.

III. (1) The course of study necessary for the Degree of Bachelor of Laws shall extend over three academical years, one of which at least must be spent in the University in which the Candidate intends to graduate, the other two may have been spent in any other University or School of Law, specially recognized by the University Court.

(2) No Candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

IV. Candidates must undergo examination in the subjects prescribed in Section II. hereof; and they must pass at one examination in at least two of these subjects. Before presenting themselves in any subject the candidates must have attended the requisite course of instruction in such subject. Candidates who have passed an examination for another degree in any of the said prescribed subjects in the same University may be exempted from examination in such subject or subjects, provided that the examiners are satisfied that the previous examination in such subject or subjects has been passed on a sufficiently high standard.

V. Every Candidate for the Degree of Bachelor of Laws shall be examined both orally and in writing on each of the subjects in the course of study above prescribed in which he presents himself for examination.

VI. (1) Distinction may be awarded to Candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Laws a diploma shall be given, setting forth the subjects in which the Candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of or Lecturers on the subjects included in the said examinations, and additional Examiners



appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this Ordinance shall come into operation shall have completed a part of his course with a view to Graduation as Bachelor of Laws in any Scottish University, under Regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such Regulations, may become a Candidate for the Degree of Bachelor of Laws without complying with the provisions of this Ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this Ordinance.

X. This Ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council.

#### Degree of B.L.

The following are the provisions of Ordinance No. 40, General No. 12, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, in session 1894-95, shall begin their course of study with a view to Graduation in Law.

I. No one shall be admitted to Examination as a Candidate for the Degree of Bachelor of Law (B.L.) unless he be a Graduate in Arts of one of the Universities of the United Kingdom, or of any Foreign or Colonial University specially recognized for the purpose by the University Court; or until he shall have passed—

A. The Preliminary Examination in the Faculty of Arts, or its equivalent, as specified in Ordinance No. 11 [General No. 6.—Regulations for Degrees in Arts]; and

B. An Examination in one of the Scottish Universities, to be conducted by the Examiners in Arts, in the following subjects, on the Standard of Examination for the Ordinary Degree of Master of Arts:—

(1) Logic and Psychology; or, in the option of the Candidate, Moral Philosophy.

(2) Latin.

(3) One additional Arts subject, not being one of those which belong also to the Faculty of Law.

And he must have studied at least one of these subjects in a full course in a Scottish University, or an equivalent course in another University approved by the University Court.

II. The course of study in Law necessary for the Degree of Bachelor of Law shall include the following subjects:—

1. Civil Law, during a course of not less than eighty lectures; or a half-course in Civil Law where in any University a full course is not available; provided that in the latter case, candidates who are not already graduates in Arts shall be required to take in addition a course in such subject in Arts as may be sanctioned by the Senatus Academicus, or a half-course in one or other of the following branches of Law:—

(a) Jurisprudence, General or Comparative.

(b) The Law of Nations, or Public International Law.

(c) Constitutional Law and History.

(d) International Private Law.

(e) Mercantile Law.

(f) Administrative Law.

2. Law of Scotland, during a course of not less than eighty lectures.
3. Conveyancing, during a course of not less than eighty lectures.
4. Forensic Medicine during a course of not less than forty meetings of the class; or, in the option of the Candidate, a half-course in one of the branches of Law specified in Subsection 1 of this Section if not already taken.

III. (1) The course of study in Law necessary for the Degree of Bachelor of Law shall extend over two academical years.

(2) No Candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

(3) The Candidate may prosecute his studies during the prescribed two years in one Scottish University, or in different Scottish Universities, or in a Scottish University and a University or School of Law specially recognized by the University Court; but one at least of these years must have been spent, and all the Examinations in the subjects mentioned in the preceding Section must have been passed, at the University in which he intends to graduate.

IV. The Candidate for the Degree of Bachelor of Law must undergo examination and pass in the four or more subjects selected by him; but he may present himself for examination in one subject or group of subjects at a time, provided that he has completed the course of study for such subject or group of subjects, and provided also that in that case a higher standard of proficiency shall be exacted.

V. Every Candidate for the Degree of Bachelor of Law shall be examined, both orally and in writing, on each of the subjects in the course of study above prescribed, in which he presents himself for Examination.

VI. (1) Distinction may be awarded to Candidates who have displayed exceptional merit in their Examinations.

(2) For the Degree of Bachelor of Law a Diploma shall be given, setting forth the subjects in which the Candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of and Lecturers on the subjects included in the said Examinations, and additional Examiners appointed by the University Court. The mode of conducting the examinations shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this Ordinance shall come into operation shall have completed a part of his course with a view to Graduation as a Bachelor of Law in any Scottish University under Regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such Regulations, may become a Candidate for the Degree of Bachelor of Law without complying with the provisions of this Ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this Ordinance.

X. This Ordinance shall come into force at the beginning of the first Academical year after the date on which it is approved by Her Majesty in Council.

REGULATIONS APPLICABLE TO ALL WHO BEGAN THEIR COURSE WITH A VIEW TO GRADUATION IN LAW BEFORE 1ST OCTOBER, 1894.

I. No one shall hereafter be admitted as a candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a graduate in Arts of a recognized University.

II. The course of study in Law necessary for the Degree of Bachelor of Laws shall extend over three academical years, and shall include attendance on a distinct course in each of the six following departments, viz. :—

1. CIVIL LAW, - - - - -	}	During Courses of not less than Eighty Lectures each.
2. LAW OF SCOTLAND, - - - - -		
3. CONVEYANCING, - - - - -		
4. PUBLIC LAW, - - - - -	}	During Courses of not less than Forty Lectures each.
5. CONSTITUTIONAL LAW AND HISTORY, - - - - -		
6. MEDICAL JURISPRUDENCE, - - - - -		

III. No one shall be admitted as a candidate for this Degree in any University unless two at least of the three academical years of his course of study in Law shall have been in such University.

IV. Candidates for the Degree of Bachelor of Laws shall be examined, both in writing and *viva voce*, on each of the six departments of Law above specified.

V. The Examiners, in judging of the qualifications of candidates, shall have special regard to their acquirements in the two departments of Public Law and Constitutional Law and History.

IX. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Law (B.L.) in the University of Glasgow unless he be a Graduate in Arts, qualified as prescribed in section I. (*supra*), or unless he shall have passed a satisfactory examination in Latin, and in any three of the following subjects (Logic or Mathematics being always one of the three), viz. :—(*a*) Greek, with the alternative of French or German, (*b*) Logic, (*c*) Moral Philosophy, (*d*) Mathematics, (*e*) Natural Philosophy, and (*f*) English Literature ; and further, shall have studied, during at least two academical years, two or more of the above branches, in one or more of the Universities mentioned in section I. The examinations shall be conducted by Examiners in Arts, together with some of the Law Examiners. The following are the subjects of Preliminary Examination under this section :—

ARTS SUBJECTS.—The examination in the Arts Subjects under section IX. will be the same as that for the Degree of M.A.

FRENCH.—*Montesquieu's* Esprit des Lois, Books i. to v. ; *Voltaire's* Charles XII. ; *Moliere's* Le Bourgeois Gentilhomme ; *Victor Hugo*, First Division of Selections (Poésie) contained in L'Œuvre Complète de Victor Hugo (Extraits), Paris, Hetzel-Quantin, 1885. Some knowledge of the matter of the books prescribed as well as of their text is required. A passage from a work not prescribed may also be set. Moderate proficiency in French Prose Composition is required. Questions on French Grammar, Philology, and History will also be set. For these subjects reference may be made to *Saintsbury's* Primer of French Literature, *Brachet's* Historical French Grammar, or *Clapin's* Primer of French Philology, and *Charlotte Yonge's* Primer of French History.

GERMAN.—*Von Ihering*, Der Kampf um's Recht ; *Schiller*, Die Belagerung von Antwerpen ; *Lessing*, Minna von Barnhelm ; *Goethe*, Hermann und Dorothea. Translation, Composition, and Grammatical and Historical Knowledge will be required, as in French. Reference may be made to *Gostwick and Harrison's* German Literature, or *Selss'* Outline of the Literature of Germany ; and *Sime's* History of Germany (Macmillan's Hist. Course for Schools).

X. The course of study in Law necessary for the Degree of Bachelor of Law in the University of Glasgow shall extend over at least two academical years, and shall include attendance on a distinct course, as specified in section II., in each of the three departments of Civil Law, Law of Scotland, and Conveyancing, and in any one of the other three departments of Law mentioned in that section ; provided always that in lieu of Civil Law, or one of the last-mentioned three departments of Law, attendance on a distinct course of Moral Philosophy shall be admitted as sufficient, or in the event of Moral Philosophy having been selected by a candidate as one of the three optional subjects of Preliminary Examination, then attendance on a distinct course of Political Economy shall be admitted in lieu of Civil Law or one of the said other three departments of Law. No one shall be admitted to examination as a Candidate for the said Degree unless two academical years of his course of study in Law shall have been in the University of Glasgow. The candidates shall be examined in each of the departments in which they shall have given attendance as herein required.

XIII. Any candidate who, before the approval of the present alteration by Her Majesty in Council, may, with a view to Graduation in the University, have passed an examination in any of the subjects hereby required for the Degree of B.L., shall be entitled to reckon such examination as an examination in the same subject or subjects for the purposes of the said Degree.

## SUBJECTS OF EXAMINATION.

The examinations for LL.B. and B.L. in Session 1894-95 will embrace the following books and subjects, viz. :—

*In Civil Law.*—Justinian's Institutes, with Moyle's Introduction Commentary, etc.

*In the Law of Scotland.*—Bell's Principles of the Law of Scotland, and the Professor's Lectures.

*In Conveyancing.*—Professor A. M. Bell's Lectures on Conveyancing. The constitution, transmission, and extinction of Heritable Rights according to the Law of Scotland.

*In Public Law.*—(1) History and Philosophy of Law ; (2) Public International Law ; and (3) Private International Law. Authorities recommended—Maine's Ancient Law ; Ahrens' Cours de Droit Naturel, or Lorimer's Institutes of Law and Law of Nations, or Trendelenburg's Naturrecht ; Hall's or Woolsey's International Law, or Twiss' Law of Nations, or Heffter's Droit International de l'Europe, together with the prize cases reported in Tudor's Leading Cases in Mercantile and Maritime Law, or Bluntschli's Völkerrecht, together with the above cases ; the Eighth Volume of Savigny's System translated by Guthrie (2nd edition).

*In Constitutional Law and History.*—(1) History of the Constitution during the 16th and 17th centuries : (2) Existing Constitutional Law. Authorities recommended—Hallam's Constitutional History of England ; Anson's Law and Custom of the Constitution, 2 vols. ; Leading Cases in Constitutional Law, by Thomas ; Dicey's Law of the Constitution.

*In Medical Jurisprudence.*—Infanticide ; Concealment of Pregnancy ; Rape ; Wounds ; Identity ; Presumption of Survivorship ; General Evidence in Cases of Poisoning ; Poisoning by Arsenic ; Examination of Blood Stains ; Legitimacy ; Insanity. (Text-Book, Principles of Forensic Medicine, by Guy and Ferrier.)

*In Moral Philosophy.*—The subjects of examination for the Degree of M.A. Those who have not attended the Class of Moral Philosophy will be examined in Sidgwick's Methods of Ethics, and will also be expected to show a general knowledge of the history of Ethical Philosophy in modern times.

*In Political Economy.*—The subjects of examination for the Degree of M.A.

No candidate for the Degree of B.L. is admitted to an Examination in Law Subjects until he has passed in all the subjects of the Preliminary Examination.

For dates of Examinations and times for giving in names, see page 186.

TABLE OF EXAMINATIONS FOR DEGREES IN LAW, TO BE HELD DURING SESSION 1894-95.

Fee. <sup>1</sup>	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date. <sup>2</sup>	Subjects of Examination.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.		Examination.
			October, 1894.	March—April, 1895.	
£1 1s. on each entry for Examination, and balance, if any, before Graduation.	13th September or 11th March,	French,	1894.	1895.	PRELIMINARY FOR B.L.
		"	Tues., 2nd Oct., 3—4.30 p.m.	Tues., 2nd Apr., 3—4.30 p.m.	
		German,	Thurs., 4th " 3—5 p.m.	Thurs., 4th " 3—5 p.m.	
	26th September or 1st March,	"	Wed., 3rd " 3—4.30 p.m.	Wed., 3rd " 3—4.30 p.m.	
		English Literature,	Fri., 5th " 9—11 a.m.	Fri., 5th " 9—11 a.m.	
		Latin,	Fri., 19th " 10—1 p.m.	Sat., 30th Mar., 9—12 noon.	
		Greek,	Mon., 15th " 10—12, 1—3, and 4—6 p.m.	Mon., 1st Apr., 10—12, 1—3, and 4—6 p.m.	
		Logic,	Tues., 16th " 10—12, 1—3, and 4—6 p.m.	Tues., 2nd " 10—12, 1—3, and 4—6 p.m.	
		Moral Philosophy,	Wed., 17th " 10—1 and 2—5 p.m.	Wed., 3rd " 10—1 and 2—5 p.m.	
		Mathematics,	Thurs., 18th " 10—1 and 2—5 p.m.	Thurs., 4th " 10—1 and 2—5 p.m.	
		Natural Philosophy,	Fri., 12th " 10—1 and 2—5 p.m.	Fri., 5th " 10—1 and 2—5 p.m.	
	26th September or 1st March,	"	Sat., 13th " 10—1 and 2—5 p.m.	Sat., 6th " 10—1 and 2—5 p.m.	
		Scots Law,	Tues., 9th Oct., 9—12 noon.	Mon., 25th Mar., 9—12 noon.	
		Public Law,	" " 2—5 p.m.	" " 2—5 p.m.	
		Civil Law,	Wed., 10th " 9—12 noon.	Tues., 26th " 9—12 noon.	
Total Fees: LL.B., £5 5s.; B.L., £3 3s.	26th September or 1st March,	Constitution, Law & Hist.,	" " 2—5 p.m.	" " 2—5 p.m.	LAW.
		Conveyancing,	Thurs., 11th " 9—12 noon.	Wed., 27th " 9—12 noon.	
		Medical Jurisprudence,	" " 2—5 p.m.	" " 2—5 p.m.	
		Moral Philosophy,	Thurs., 18th " 10—1 and 2—5 p.m.	Thurs., 4th Apr., 10—1 and 2—5 p.m.	
		Political Economy,	Sat., 20th " 10—1 p.m.	" 28th Mar., 2—5 p.m.	

<sup>1</sup> Under the new regulations the Fee for LL.B. is £6 6s.; for B.L., £5 5s.

<sup>2</sup> When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be enrolled for examination. A Candidate is not held to be enrolled for examination until his Name is entered, the Fee paid, and all the necessary Certificates, etc., lodged.



## 5.—GRADUATION IN DIVINITY.

## Degree of Bachelor of Divinity.

This Degree, having been revived in the University by authority of the University Court and Senatus Academicus, is conferred on such qualified candidates as have satisfied the Members of the Divinity Faculty of their proficiency in the following departments, viz. :—

I. Hebrew, New Testament Exegesis, and Apologetics.

II. Divinity, Church History, and Biblical Criticism.

The scheme of examination for Session 1894-95 is as follows :—

## I. FIRST DEPARTMENT—

- (a) *Hebrew*.—(1) First Book of Samuel, Text and Exegesis ; (2) Book of Hosea, and Psalms lxxiii.–lxxxix., Text, Exegesis, and Introduction ; (3) Portions of unpointed Hebrew to be punctuated ; (4) Translations from English into Hebrew.

Books that may be used :

Driver's Notes on the Hebrew Text of the Books of Samuel ; the relative Commentaries of Cheyne, Delitzsch, Perowne, Kiel, and Steiner ; the Introductions to the Old Testament by Bleek and Driver. Candidates will be expected to know Müller's Outlines of Hebrew Syntax.

- (b) *New Testament Exegesis*.—(1) Introduction to the Acts of the Apostles. (2) Exegesis of Luke viii. 4–xviii. 14, with critical comparison of the parallel passages in Matthew and Mark. (3) Exegesis of the Epistle to the Philippians.

Books which may be consulted :

(1) Schneckenburger, Ueber den Zweck der Apostelgeschichte ; Schwanbeck, Ueber die Quellen der Apostelgeschichte ; Lekebusch, Die Composition und Entstehung der Apostelgeschichte ; (2) The relative Commentaries of Godet, Meyer, or Alford ; Bleek, Synoptische Erklärung der drei ersten Evangelien ; (3) The Commentaries of Ellicott, Alford, Lightfoot.

- (c) *Apologetics*.—Theism ; Miracles.

Books which may be consulted :

The relative sections of general treatises on Apologetics or Dogmatics [see II., below] ; Flint, Tulloch, Davidson on Theism ; Mozley on Miracles ; Steinmeyer, Miracles of our Lord ; Row, Christian Evidences.

## II. SECOND DEPARTMENT—

- (a) *Divinity*.—Doctrine of the Image of God in Man ; Doctrine of Sin ; Biblical Theology—Pauline Doctrine of Sin and of Justification.

The following books may be consulted :

The Treatises on Dogmatics by Martensen, Oosterzee, Kahnis, Lipsius, Dorner, Biedermann, Nitzsch ; Hodge,

Systematic Theology ; Strong, Systematic Theology ; Laidlaw, Bible Doctrine of Man ; Keerl, Der Mensch das Ebenbild Gottes ; Müller, Christian Doctrine of Sin ; Tulloch, Christian Doctrine of Sin ; Schmid, Weiss, Oosterzee, Beyschlag, on Biblical Theology of the New Testament ; Reuss, History of Christian Theology in the Apostolic Age ; Pfleiderer, Paulinismus.

(b) *Church History*.—Mediaeval Period (1054-1517).

The following are among the books which may be consulted : Neander ; Schaff ; Milman, Latin Christianity ; Ranke ; Cox, Latin and Teutonic Christendom.

(c) *Biblical Criticism*.—(1) Textual Criticism. (2) Hermeneutics.

Books which may be consulted :

(1) Davidson, Biblical Criticism ; Tregelles, Treatise in Horne's Introduction, vol. IV. ; Scrivener, Introduction to the Criticism of the New Testament (fourth edition) ; Westcott and Hort, Prolegomena to the Greek Testament. (2) Davidson, Sacred Hermeneutics (1843), or Treatise on Interpretation in Horne's Introduction, vol. II. ; Ernesti, Institutio Interpretis ; Immer, Hermeneutik des Neuen Testamentes.

The scheme of examination for Session 1895-96 will be as follows:—

I. FIRST DEPARTMENT—

(a) *Hebrew*.—(1) Second Book of Samuel ; (2) Jeremiah i.-xx. ; Psalms xc.-cvi. ; (3) Portions of unpointed Hebrew to be punctuated and translated ; (4) Translations from English into Hebrew.

(b) *New Testament Exegesis*.—(1) Introduction to the Gospel according to Matthew ; (2) Exegesis of Matthew iv. 17-xvi. 12, with critical comparison of the parallel passages in Mark and Luke ; (3) Exegesis of the Epistles to the Corinthians.

(c) *Apologetics*.—Religion and Revelation ; Messianic Prophecy.

II. SECOND DEPARTMENT—

(a) *Divinity*.—Doctrine of the Trinity ; Subjective Soteriology ; Biblical Theology—Synoptic Gospels.

(b) *Church History*.—The German and Swiss Reformations.

(c) *Biblical Criticism*.—(1) Textual Criticism ; (2) Hermeneutics.

All Graduates in Arts of any of the Universities of Scotland, or of England, or of Ireland, or of a Colonial University whose Degrees shall for this purpose have been specially recognized by the University Court, who have studied at this University during at least two sessions, and "who have gone through a due course of Theological training, whether in this University or in any other Theological School in Scotland or England," may become candidates for the Degree.

Students who have completed the second year of their Divinity studies, subsequent to the termination of their Course in Arts, may present themselves for examination in the First Department.

TABLE OF EXAMINATIONS FOR DEGREES IN DIVINITY, FOR BLACK THEOLOGICAL  
FELLOWSHIP, FOR FINDLATER SCHOLARSHIP, AND FOR JAMESON PRIZE,  
TO BE HELD DURING SESSION 1894-95.

Department.	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date. <sup>1</sup>	Fee.	Dates of Written Examinations and Hours at which the different Papers will be set.
First.	26th October, 1894.	£2 12s. 6d.	Thurs., 1st Nov., 1894. Hebrew, - - - 10—1 p.m.
			" " Hebrew, - - - 2—5 p.m.
			Frid., 2nd Nov., 1894. Apologetics, - - - 10—1 p.m.
Second.	22nd March, 1895.	£2 12s. 6d.	" " New Testament Exegesis, 2—5 p.m.
			Thurs., 28th Mar., 1895. Divinity, - - - 10—1 p.m.
			" " Textual Criticism, - 2—4 p.m.
			Frid., 29th Mar., 1895. Church History, - 10—1 p.m.
			" " Hermeneutics, - - 2—4 p.m.

<sup>1</sup> Forms of application for examination may be obtained at the Matriculation Office. These forms, when filled up, must be forwarded by the Candidates to the Dean of the Faculty of Theology, Professor Dickson, along with certificates of attendance on the required classes, and, having been certified by him, must then be transmitted to the Assistant-Clerk (Matriculation Office), on or before the date prescribed above.

## HONORARY DEGREES.

The powers of the *Senatus Academicus* to grant Honorary Degrees are regulated by Ordinance No. 41 of the Universities Commissioners (1889), of date 13th December, 1893, which received the approval of Her Majesty in Council on 28th May, 1894.

## Degree of Doctor of Divinity.

The following are the regulations for the Degree of D.D. :

I. At the commencement of every session, the *Senatus Academicus* in each University shall appoint a Committee, to be called the Committee on the Degree of Doctor of Divinity, consisting of the Principal, three Professors from the Faculty of Theology (of whom the Professor of Divinity shall be one), and three other Professors to be selected by the *Senatus Academicus* from the other Faculties.

II. It shall be the duty of this Committee to select persons to be recommended to the *Senatus Academicus* for the Degree; but the Committee shall not entertain applications from or on behalf of persons desirous of receiving the Degree.

III. The Committee shall present a reasoned report, embodying its recommendations to the *Senatus*.

IV. In the case of every person recommended for the Degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the *Senatus* may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz. :—

- (a) Whether he is an alumnus of this University, and whether he already holds the Degree of B.D., or any other University Degree.
- (b) Whether his character and professional standing are such as to warrant the conferring of the proposed distinction.
- (c) Whether, (1) being a Bachelor of Divinity of eight years' standing, he has passed a higher examination in any three of the six subjects embraced in the examination for the Degree of B.D.; or, (2) being a Bachelor of Divinity of fifteen years' standing, he has published a contribution of merit to Theological Literature.

V. No resolution to confer the Degree of Doctor of Divinity shall be moved in the *Senatus* except upon special notice given after a fortnight has elapsed from the date when the report of the Committee shall have been presented.

## Degree of Doctor of Laws.

The following are the regulations for the Degree of LL.D. :—

I. At the commencement of every session, the *Senatus Academicus* in each University shall appoint a Committee, to be called the Committee on the Degree of Doctor of Laws, consisting of the Principal and such Professors selected from the various Faculties as the *Senatus Academicus* may determine, provided that the total number of the Committee shall not exceed twelve.

II. It shall be the duty of this Committee to select persons to be recommended to the *Senatus* for the Degree, but the Committee shall not entertain applications from or on behalf of persons desirous of receiving the Degree.

III. The Committee shall present to the Senatus a reasoned report, embodying its recommendations.

IV. In the case of every person recommended for the Degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the Senatus may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz.:—

- (a) Whether he is an alumnus of this or any other University, and whether he already holds any Academical Degree.
- (b) Whether he is the author of any work of acknowledged merit, or has otherwise contributed to the progress of learning and science.
- (c) And, in general, whether his character, profession, and position in society are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Laws shall be moved in the Senatus except upon special notice given after a fortnight has elapsed from the date when the report of the Committee shall have been presented.

#### Academic Dress.

##### GRADUATES OF THE UNIVERSITY.

On ceremonial occasions the Graduates are expected to appear in the Gown and Hood proper to their degrees.

The ordinary Gowns to be worn by Graduates of the University of Glasgow are of black silk or stuff, of similar shape to those appropriated to the corresponding degrees in the other British Universities.<sup>1</sup>

The Hoods for the different Degrees, as approved by the University Court, on 19th May, 1893, are as follows:—

B.A., Black Silk, bordered inside with Red Purple Silk (colour of Bell Heather—*Erica Cinerea*).

M.A., Black Silk, lined with Red Purple Silk.

B.Sc., Black Silk, bordered with Scarlet Cloth and lined with Gold Coloured Silk (colour of Whin Blossom—*Ulex Europæa*).

D.Sc., Scarlet Cloth, lined with Gold Coloured Silk.

B.L., Black Silk, with an inside border of Venetian Red Silk (colour of Clove Carnations).

LL.B., Black Silk, bordered with Scarlet Cloth and lined with Venetian Red Silk.

LL.D., Scarlet Cloth, lined with Venetian Red Silk.

M.B. and C.M., Black Silk, bordered with Scarlet Cloth and lined with Scarlet Silk.

M.D., Scarlet Cloth, lined with Scarlet Silk.

<sup>1</sup> The Robemakers to the University have standard patterns of the gowns, which, it may be stated for the information of those at a distance, are of the same shape with the ordinary (or undress) gowns of the corresponding degrees at Cambridge.

B.D., Black Silk, bordered with Scarlet Cloth and lined with a light Cherry Silk.

D.D., Scarlet Cloth, lined with White Silk.

#### UNDER-GRADUATES.

By a Statute of the Commissioners appointed by the Act, 1690, chapter XVII., of the Parliament of Scotland, "for the Visitation of Universities and Schools," it was enacted that "all the students in the several Universities and Colleges within this kingdom be obliged to wear gowns during the time of the sitting of the Colleges," and that "the Regents or Masters be obliged to wear black gowns, and the students red gowns ; and, in regard that wearing of gowns has never been the custom in the College of Edinburgh, the Commissioners do therefore recommend to the Masters of that College to endeavour to bring the custom of wearing gowns there into practice." It appears from the University records that the wearing of red gowns had been previously the practice in Glasgow, and it continued to be the practice in all the Arts classes which existed at the date of this statute uninterruptedly till recently.

The General Council of this University having requested the University Court to recommend to the Senate the propriety of requiring the students to conform to the ancient practice of this University as to Academic dress ; and the University Court having remitted the subject to the determination of the Senate, with an expression of regret that the Academical Dress formerly worn by the Arts students has of late years been laid aside, the Senate has given notice that the proper Academic Dress for students in Arts is the red gown.

While this notice does not apply to students not in the Faculty of Arts, all students in the University are entitled to wear the red gown.

#### CEREMONY OF GRADUATION.

The following are the regulations adopted by the Senate :—

All degrees honorary or gained by examination, shall be publicly conferred, except in special cases to be decided by the Senate.

Candidates for Graduation are required to appear in black gowns with the hoods appropriate to their degrees ; those who are already graduates, in the costume proper to their previous degree.



# VIII.—BURSARIES, SCHOLARSHIPS, &c., PRIZES

N.B.—No alumnus of the University is allowed to hold at one time more than one Bursary, Scholarship, or Fellowship, except in cases provided for by the Regulations.

In the case of Bursaries in the gift of the Senate, in appointing to which "a preference" is to be given to certain names, &c., by a "preference" the Senate understand, in every instance, a preference *ceteris paribus*.

## A. BURSARIES ARRANGED ACCORDING TO FACULTIES.

### BURSARIES IN THE FACULTY OF THEOLOGY.

Bursars in the Faculty of Theology are required to attend each session the Divinity Class and any two of the three classes of Hebrew, Church History, and Biblical Criticism.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Adam, John, - - - - -	3	4	£15
Black, - - - - -	2	3	£42
Boyd, - - - - -	1	3	£11
Boyd and Sanders, - - - - -	1	3	£13 16/8
Brown or Ettles, - - - - -	2	3	£25
Dundonald, - - - - -	6	2	£41 2/6
Gilhagie, - - - - -	1	4	£6 6/
Hastie, - - - - -	2	3	£25
Logan, - - - - -	1	3	£16
Lorimer, - - - - -	4	3	£25 and £20
Lumsden, - - - - -	1	4	£15
Macfarlane, James, - - - - -	1	3	£36
Marshall, - - - - -	1	4	£17
Muir, - - - - -	1	3	£36
Muir Divinity, - - - - -	2	2	£25
Notman, - - - - -	1	3	£17
Ross, John, jun., - - - - -	1	3	£36
Struthers, - - - - -	1	3	£13 6/8
Wilsone, - - - - -	1	3	£13 6/8

### BURSARIES IN THE FACULTY OF LAW.

Macfarlane, Robert, - - - - -	—	—	—
Merchants' House, - - - - -	1	3	£25
Walkinshaw-Young, - - - - -	1	2	£18
Major Young's Fund, - - - - -	2	6 and 2	£20

### BURSARIES IN THE FACULTY OF MEDICINE.

Arthur, - - - - -	1	3	£25
Brisbane, - - - - -	1	4	£42
Davidson, - - - - -	1	3	£40
Gibson, Dr. Thomas, - - - - -	1	—	£30
Glasgow Highland Society, - - - - -	1	4	£20
Logan, - - - - -	1	4	£16
Lorimer, - - - - -	4	3	£25 and £20
Macarthur, - - - - -	1	2	£20
Macfarlane, John, - - - - -	1	3	£40
Mackintosh, - - - - -	1	1	£30
Marshall, - - - - -	1	4	£17
Merchants' House, - - - - -	2	4	£25
Monteith, John, - - - - -	2	2	£21
Paterson, James A., - - - - -	8	4	£30 and £15
Rainy, - - - - -	2	2	£20
Walton, - - - - -	1	4	£36
Weir, Andrew, - - - - -	1	1	£18

## BURSARIES IN THE FACULTY OF SCIENCE.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Buchanan Society (Arts or Science), -	16	4	£30
Elder, - - - - -	2	2	£50
Malcolm Kerr, - - - - -	2	3	£15
M'Ewen, Malcolm (Arts or Science), -	1	4	£16
Metcalf, - - - - -	4	2	£25
Muir (Civil Engineering), - - - - -	2	1	£12 10/
Shipwrights Company, - - - - -	1	—	£25
Young, George, - - - - -	1	—	£30

## BURSARIES IN THE FACULTY OF ARTS.

Bursars in the Faculty of Arts are required to attend at least two classes each session.

Adam, James, - - - - -	3	4	£11
Adamson, - - - - -	1	3 or 4	£20
Angus and Mearns Benevolent Society,	2	4	£15
Ayrshire Masonic, - - - - -	1	4	£20
Barbour (Kilbarchan), - - - - -	1	3	£16
Biggart Memorial, - - - - -	10	4	£25
Black, - - - - -	2	4	£21
Blackquarry School, - - - - -	1	4	£13
Brand, - - - - -	3	4	£24
Brown, - - - - -	1	4	£6 13/4
Brown, Ebenezer, - - - - -	1	3	£37
Brown-Paton, - - - - -	2	3	£16
Browne (Ayrshire), - - - - -	2	4	£20
Buchanan, - - - - -	2	3	£13
Buchanan Society (Arts or Science), -	16	4	£30
Clark, John (Mile-end), - - - - -	24	4	£30
Cowan, - - - - -	1	3	£26 13/4
Craig, - - - - -	1	4	£25
Craig, Archibald, - - - - -	1	2	£9
Crawfurd (or Bishop's), - - - - -	1	4	£13
Davidson, - - - - -	1	3	£40
Duncan's Bute, - - - - -	2	4	£35
Dundonald, - - - - -	8	4	£40
Ewing, James, - - - - -	4	4	£20
Forfar, - - - - -	4	4	£30
Foundation, - - - - -	4	4	£10
Fullarton of Overton, - - - - -	5	2	£20
General Council, - - - - -	5	3 or 2	£20
Gilchrist, - - - - -	1	3	£8
Glasgow City Educational Endowm'ts,	20	4 or 2	£25
Glasgow Highland Society, - - - - -	12	4	£20
Grant, George, - - - - -	1	3 or 4	£45
Grant, George, jun., - - - - -	1	4	£45
Hamilton Educational Trust, - - - - -	3	3	£15
Hannay, - - - - -	3	3	£15
Hastie, - - - - -	1	4	£25
Howison, - - - - -	1	4	£9
Hutchesons' Educational Trust, - - - -	20	4	£20
Hyndford, - - - - -	1	4	£6 13/4
Jaffrey, John Ferguson, - - - - -	1	2	£34

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Kerr, Malcolm (Nat. Phil.), - -	1	3	£15
Laing, Alexander, - - - -	1	3	£20
Laing, James, - - - -	8	4	£25
Leadbetter, - - - -	1	4	£9
Leyden, John, - - - -	1	3	£13
Lochhead, James, - - - -	1	3	£16
Lochhead and Mitchell, - - -	2	4	£32
Lorimer (4 Phil. 4 Math.), - - -	8	3	£25 and £20
Lusk, - - - -	1	3	£20
M'Crie, - - - -	4	4	£25
M'Culloch, - - - -	1	4	£17
MacDougall, - - - -	3	3	£33
M'Ewen, Malcolm (Arts or Science), -	1	4	£16
MacGrouther, - - - -	2	4	£20 and £15
Maitland Club, - - - -	1	—	—
Marshall Trust, - - - -	16	5	£30
Menzies, - - - -	4	4	£45
Merchants' House, - - - -	1	4	£25
Monteith, - - - -	3	3	£14
Muir (Mathematics, Senior), - - -	1	1	£18
Muir (Mathematics, Junior), - - -	1	2	£9
Orr-Ewing Dumbartonshire, - - -	11	4	£25
Paterson, James, - - - -	1	4	£23
Paterson, James A., - - - -	6	3	£40 and £20
Patrick, - - - -	2	2	£80 and £40.
Perthshire Society, - - - -	1	3	£25
Pollock, - - - -	3	3	£40
Ramsay-Walker, - - - -	2	4	£12
Ross, - - - -	1	4	£4 3/4
Scott, - - - -	3	4	£25
Stevenson of Dalry, - - - -	2	4	£32
Stewart, - - - -	3	4	£15
Thomson, James (Philosophical), -	1	2	£11

BURSARIES IN THE FACULTIES OF ARTS AND THEOLOGY.

Ardkinglass, - - - -	1	8	£9 10/
Buchanan (Bellfield), - - - -	2	7	£50
Exchequer, - - - -	6	6	£10 and £13 6/8
Hamilton, - - - -	6	6	£20 and £25
Leighton, - - - -	2	7	£9
Williams, - - - -	4	3 or 4	£40

BURSARY IN THE FACULTIES OF ARTS OR THEOLOGY.

Lamb, - - - -	1	—	£12
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BURSARIES IN THE FACULTIES OF ARTS, LAW, OR MEDICINE.

Macdonald, - - - -	2	4	£14
William Whyte, - - - -	4	4	£20

BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.

Armagh, - - - -	3	3	£25
Old Library, - - - -	1	4	£11 2/2 <sup>3</sup> <sub>4</sub>

## BURSARIES IN ANY FACULTY.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Ayrshire Society, - - - -	4	3	£15
Celtic Society (Campbell), - - - -	1	1 or more	£5
Denny, - - - -	4	4	£30
Dumfriesshire Society, - - - -	2	4	£15
Ferguson, James, - - - -	2	2	£80
Forrest, - - - -	5	5 or less	£22
Gibson, John, - - - -	2	4	£20
Kintyre (Ker), - - - -	1	3	£20
Kintyre (Alexander Love), - - - -	1	4	£11
M'Kechnie, - - - -	2	4	£35
Shearer, - - - -	3	3	£30
Smith, - - - -	2	1 or more	£9
Taylor, - - - -	2	4 or 5	£12

## B.—BURSARIES (ALPHABETICALLY ARRANGED).

JAMES ADAM BURSARIES (*Arts*).—Three in number, founded by the Rev. James Adam, minister of Cumbræ, who died in 1830. They are appropriated to students in the Gown Classes, and tenable for four years. In appointing to one of the Bursaries, preference is given to the kindred of the founder, and in appointing to another to students of the name of Adam. The appointment is vested in the Earl of Glasgow, the Professor of Divinity, and the Minister of Cumbræ. Value, about £11 per annum each.

*Bursars*—Donald Douglas, 1891 ; John R. Tannahill, 1892.

JOHN ADAM BURSARIES (*Theology*).—Three in number, founded by Mr. John Adam, of the Inner Temple, who died in 1836. They are open to competition to students in Theology of the first year ; and, after examination, are adjudged to the three students who shall be declared to be the most deserving, and to have made the highest attainments in Latin, Greek, Logic, Moral and Natural Philosophy, and Mathematics. In appointing to one of the Bursaries, there is a preference, *cæteris paribus*, to the kindred of the founder, and to students of the name of Adam or Dollar. The trustees and patrons are the Principal, the Professor of Theology, and the five Professors of the Gown Classes. These Bursaries are tenable for four years. Value, £15 to each Bursar.

*Bursars*—George A. Stalker, 1892 ; Francis G. Geddes, M.A., 1892 ; George S. Yuille, 1893.

ADAMSON BURSARY (*Arts*).—Founded by the Rev. David Adamson, minister of Fintry, in 1674, is appropriated to a student in Philosophy, son of a freeman in one of the seven Incorporate Trades of Stirling. It is tenable for four years by a student entering the

Greek Class, for three years by a student entering the Logic Class ; and the appointment is vested in the Convener Court of Stirling. Value, the free proceeds of the capital, which now amounts to about £500. *Bursar*—James Dowell, 1893.

ANGUS AND MEARN'S BENEVOLENT SOCIETY'S BURSARIES (*Arts*).—Two in number, founded in 1860 by the Glasgow Angus and Mearns Benevolent Society. Value, £15 per annum each. They are, as a rule, tenable for four years in the Arts Classes, and are open only to natives, or sons of natives, of the counties of Forfar and Kincardine, who are desirous of obtaining a University education, but whose circumstances are such as to render them unable to accomplish it without the aid of a Bursary. When a vacancy occurs applications are to be made, not later than 1st September, to Mr. Stuart Spence, 52 Virginia Street, Glasgow.

*Bursars*—William Abernethy, 1893 ; Edward G. Elliott, 1893.

ARDKINGGLASS BURSARY (*Arts and Theology*).—Founded in 1733, by Sir James and Lady Campbell, out of a fund which Colonel John Blackader had by his Will set aside for pious uses. Tenable for eight years—five in Languages and Philosophy, and three in Divinity. Patron, Mr. Geo. F. W. Callander, of Ardkinglass and Craigforth. Bursar to be found duly qualified by Principal and Masters ; and to take the degree of M.A. before passing to Divinity. Value, £9 10s.

*Bursar*—John M. Watson, 1892.

ARMAGH BURSARIES (*Theology, Law, or Medicine*).—Three in number, founded in 1733 by Hugh Boulter, Archbishop of Armagh, who endowed the College with the annual rent of certain lands in the neighbourhood of Glasgow. By ordinance of the Universities Commissioners, of date 17th May, 1862, these three Bursaries were raised from £15 to £25 per annum each (the funds having accumulated through vacancies), and the restrictions as to birthplace were removed. On each vacancy, the most distinguished Graduate in Arts of the year, who offers himself as a candidate, is appointed by the Senate.

The Bursaries are tenable for three years, during which the holders must give regular attendance on the classes of this University, as students of Theology, Law, or Medicine. One Bursar is appointed at the commencement of each session, and no appointment is made of more than one Bursar in the same year.

Names of candidates to be sent in to the Clerk of Senate on 1st December in each year.

*Bursar*—Alexander Taylor, M.A., 1892 ; John W. Leitch, 1893.

ARTHUR BURSARY OR SCHOLARSHIP (*Medicine*).—Founded in 1892 by Mrs. Arthur of Barshaw. This Bursary is of the annual value of £25. It is open to women who, intending to enter the medical profession, are first year's students in the Medical School at Queen

Margaret College. It is to be awarded by the Trustees to the student who shall have most distinguished herself in all or a majority of the classes of the Medical School which form the first year's course of study therein, or who shall take the highest place among the Queen Margaret College candidates at the First Professional Examination held in the University before the commencement of the winter session in which an appointment falls to be made. If two students are of equal merit, the Bursary will be divided between them, and if more than two are equal, a special examination may be held to determine who shall be the recipient. The Bursary is tenable for three years, subject to the condition that the Bursar prosecute her medical studies with the approval of the Trustees.

*Bursar or Scholar*—Agnes Jane Anderson, 1892.

AYRSHIRE MASONIC BURSARY (*Arts*).—This bursary was founded in 1874, the funds for it being subscribed by the Masonic Lodges of Ayrshire. It is open to the sons of Freemasons, members of an Ayrshire Masonic Lodge, and is awarded by competition to a student of the first year. Candidates must be in attendance at school in Ayrshire or be resident in the county, and must not be more than eighteen years of age, at the examination. The bursary is tenable for four years or during Arts curriculum of Bursar, but cannot be held along with any other Bursary. The Bursar must pass the Departmental Examinations for the Degree of M.A. in regular course, on pain of suspension or deprivation. Value, the interest of the mortified fund and annual subscriptions, not exceeding in all £25. When a vacancy occurs applications should be lodged with the Secretary of the Trust, Mr. J. M. McCosh, Clydesdale Bank, Dalry, Ayrshire, on or before the first day of September. The names of candidates approved by the Patrons will be sent by him to the Clerk of Senate to be entered at the University competition for Bursaries for students of the first year.

*Bursar*—William W. Fulton, 1892.

GLASGOW AYRSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Four in number, founded in 1868 and 1879 by the Glasgow Ayrshire Society, and consisting of the free annual proceeds of a sum of £1,501 11s. subscribed by members of the Society, to be devoted to the establishment of Bursaries in the University of Glasgow, and invested for that purpose. The Bursaries, which are at present £15 per annum each, are tenable for not more than three years, and are open to applicants between the ages of 14 and 24, who are descendants of members of the Society, or natives of Ayrshire, or sons of natives resident in Glasgow, who are in circumstances rendering the aid of a Bursary necessary or desirable. Patrons—the Directors and Office-bearers of the Society. Secretary, Mr. James Graham Girvan, 186 West George Street, Glasgow. (Two Vacancies.)

*Bursars*—Thomas Skeoch, 1893; James McClure, 1893.



**BARBOUR KILBARCHAN BURSARY** (*Arts*).—Founded in 1887 by the Executors of Miss Mary Barbour of Plymouth Grove, Manchester, who bequeathed £500 free of legacy duty for the purpose of endowing a Scholarship for the Board School of Kilbarchan, Renfrewshire. The Bursary is open to students of the first year, and is tenable for three years. Candidates must not exceed the age of eighteen years, must produce a certificate from the Kilbarchan School Board that they have attended three years at the Kilbarchan Village or Town Board School, are of irreproachable character, and have given satisfactory evidence of good natural ability, diligence and proficiency in their studies, and must be examined at the ordinary Bursary examination.

*Bursar*.—<sup>1</sup>James Buchanan, 1891.

**BIGGART MEMORIAL BURSARIES** (*Arts*).—Ten in number. Value, £25 per annum each. Founded in 1876 by Mr. Thomas Biggart, of Baidlandhill, Dalry, Ayrshire, in memory of his son, Thomas Biggart, an alumnus of Glasgow University, who died in 1874. The Bursaries are open to competition at the annual Bursary and Preliminary Examination to students who are entering on the Arts Course at the University of Glasgow, with a view to the ministry of the United Presbyterian Church, and are designed to enable such students more easily to pursue that curriculum and obtain, as far as practicable, the Degree of Master of Arts.

The Bursaries are tenable for four years.

The Bursary Fund consists of the sum of £6,000, invested in real estate in Scotland, and the surplus revenue may be applied to prolong the tenure of any of the Bursars for a fifth year, or to the granting of additional Bursaries on the same conditions as are applicable to the others.

The Bursary is payable by equal moieties on the second day of February and at the close of the Winter Session; and the Bursar, on applying to the Principal for a precept for the second moiety, is required in each year to produce, besides the usual certificate from the Professors, a certificate signed by the Chairman and Clerk of the Theological Committee of the U.P. Synod, to the effect of his being recognized by that Church as an accepted student, pursuing his studies with a view to the ministry therein. (Three vacancies.)

*Bursars*.—<sup>1</sup>Thomas R. Anderson, 1890; <sup>1</sup>Samuel H. McEwing, 1890; <sup>1</sup>James Mackenzie, 1890; George Lamb, 1891; Herbert A. Whitelaw, 1891; Andrew B. Scott, 1892; Charles Dick, 1892; Arthur W. Wilkie, 1892; James Marr, 1893; John Falconer, 1893.

**BLACK BURSARIES** (*Arts*).—Founded by Mrs. Janet Black, widow of the Rev. William Black, D.D., minister of the Barony Parish, Glasgow. Mrs. Black died in 1876, and by her Settlement, made

<sup>1</sup> Vacant through lapse of time.

provision, *inter alia*, for the institution of two Bursaries in Arts, each of the annual value of £20 or thereby. The Bursaries are open to competition to students entering on their first session in the University; and the Bursars are required to attend the qualifying courses for a Degree in Arts.

*Bursars*—Coll A. Macdonald, 1893 (1891); James D. Cowan, 1892.

**BLACK BURSARIES** (*Theology*).—Founded by Mrs. Janet Black—who died in 1876—in memory of her husband, William Black, D.D., Minister of the Barony Parish of Glasgow. The Bursaries are entrance Bursaries, two in number, each of the annual value of £40 or thereby, tenable for three years. The competition is open to candidates holding a degree in Arts in any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland. (One vacancy.)

*Bursars*—John S. Morrison, 1893.

**BLACKQUARRY SCHOOL BURSARY** (*Arts*).—Founded in 1876 by the Trustees of the Blackquarry School, Port-Dundas, Glasgow. The Police Board of Glasgow having acquired the school compulsorily under "The Glasgow Police Acts," the Trustees resolved to apply the proceeds, after payment of all claims upon the institution, in founding a Bursary in the University of Glasgow. The Bursary is open to competition to Students in the Faculty of Arts on their first entering the University, under the same regulations as those of the competition Bursaries in the University, and is tenable for four years, subject to the condition that the Bursar shall attend the qualifying course for the Degree of M.A. Value, the annual income of a sum of £420 (about £13).

*Bursar*—John Murphy, 1893.

**BOYD BURSARIES** (*Theology*).—In 1635, Mr. Zachary Boyd founded three Bursaries for students in Divinity, tenable for two or four years. Value, £5 10s. per annum each. The patrons of two were the members of the City Council; and the appointment of the third was vested in the Merchants' House of Glasgow. Preference to burgesses' sons, particularly of the name of Boyd.

By ordinance of the Universities Commissioners, of date 17th May, 1862, the two Bursaries in the gift of the Town Council were conjoined into one, tenable for three years; the Bursar to be M.A. The Bursary in the gift of the Merchants' House is now combined with the Sanders Bursary—(See below).

*Bursar*—(Town Council)—Donald Macgillivray, M.A., 1892.

**BOYD AND SANDERS BURSARY** (*Theology*).—The Boyd Bursary (see above), value, £5 10s., in the gift of the Merchants' House of Glasgow, and the Sanders Bursary, value £8 6s. 8d., founded in

1728 by Mr. Robert Sanders of Auldhouse, also in the gift of the Merchants' House, were, by an order obtained under the authority of the Endowed Institutions Commission in 1880, conjoined into one Bursary of £13 16s. 8d. per annum, tenable for not more than three years by a student attending the ordinary curriculum in the Faculty of Theology at the University of Glasgow. There is a preference, *cæteris paribus*, to the names Boyd, Sanders, Corbet, Colquhoun, and Wardrop. When a vacancy occurs applications are to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September. (Vacant.)

BRAND BURSARIES (*Arts*).—Mr. Robert Brand, son of the late Mr. Robert Brand, coalmaster, Wishaw, by his Trust Disposition and Settlement, dated 28th June, 1873, directed his Trustees "to pay to the Senatus of the University of Glasgow the sum of £2,000, the income of said sum to be applied in payment of three Bursaries in Arts for the behoof of students in the University who shall be studying with a view to the ministry of the United Presbyterian Church." Mr. Brand died on 3rd July, 1873, but, in consequence of litigation, it was not till January, 1875, that the bequest, amounting, with interest, to the sum of £2,121 7s. 5d., was paid by the Trustees to the Senate. The Bursaries, which are tenable for four years, are of the annual value of about £24 each, and are awarded by public competition to students entering their first or second session in the Faculty of Arts; the Bursars to graduate as M.A. at the end of their course. The next appointment will be made in 1895.

*Bursar*—John E. McIntyre, 1892.

BRISBANE BURSARY (*Medicine*).—Founded by Miss Christian Brisbane in 1777, in fulfilment of the intentions of her brother, Dr. John Brisbane, of Balbegno. Their father, Dr. Thomas Brisbane, was the first Professor of Anatomy in this University.

It is tenable by a student of Medicine for four years, and the salary is about £42 per annum. The family of Brisbane and the University present alternately. The applicant must be under twenty-two years of age, and must have the Degree of M.A.

Preference is given to the kin of the founder.

*Bursar*—Thomas Hunter, M.A., 1892.

BROWN BURSARY (*Arts*).—Founded in 1697 by Colonel Brown, of Maryland. Tenable for four years. Value, £5 per annum (increased to £6 13s. 4d. by addition from Students' Bursary Fund). The Patrons are the Principal and Professors of the University, who now award it by competition. (Vacant.)

BROWN OR ETTLES BURSARIES (*Theology*).—Two in number, founded in 1867 by Miss Ettles, of Inverness, in memory of her brother-in-law, Dr. E. Brown, an alumnus of this University. The

Bursaries consist of the annual interest and proceeds of a sum of £1,000, and are open to competition to first year's students of Divinity who have passed all the examinations required for the ordinary Degree of M.A. ; with a preference, *cæteris paribus*, to such as can speak Gaelic. The Bursaries are tenable for three years.

*Bursars*—<sup>1</sup>Archibald Macintyre, M.A., 1892 (1891) ; William M. Steven, 1892.

EBENEZER BROWN BURSARY (*Arts*).—Founded in 1884 under the Trust Disposition and Settlement of Mr. Ebenezer Brown, export bottler, West Campbell Street, Glasgow. Mr. Brown, who died on 31st July, 1883, bequeathed to the Senate the sum of £1,000, free of legacy duty, for the purpose of founding and maintaining a Bursary in the Faculty of Arts, to be granted to the student who shall stand highest in a competitive examination on such subject or subjects in Arts as the Senate may prescribe. The Senate have full power to vary such subject or subjects from year to year, and to lay down such regulations regarding the Bursary as they may see fit. The Bursary is open to competition to all students entering on their first or second year of attendance, provided that no student in his second year shall be eligible who on entering upon his first year of attendance passed the Preliminary Examination in Latin and Greek, and in consequence of having so passed attended the Senior Classes of those subjects. It is tenable for three years.

*Bursar*—Thomas Nelson, 1892.

BROWNE (AYRSHIRE) BURSARIES (*Arts*).—Two in number, tenable for four years, and each of the annual value of about £20, founded in 1871 by Mr. Hugh Browne, residing at Darvel, in the county of Ayr, who for this purpose, and in memory of his brother, the late Dr. Alexander Browne, of Buenos Ayres, mortified to the University of Glasgow the sum of £1,000. The Bursaries are awarded by competition. Candidates must be natives of the county of Ayr, or must have been educated for not less than four years in a school within the said county, and must be entering on their first session at the University.

*Bursars*—William Stewart, 1892 ; Peter W. Monie, 1893.

BROWN-PATON BURSARIES (*Arts*).—Founded in 1891 by Mr. Andrew Brown-Paton, Liverpool, in memory of his father, mother, and three sisters. The Bursaries are two in number, and are tenable for three years. They are open for competition to students of the first year, with a preference to natives of the parishes of London or Galston in Ayrshire. Should no candidate from either of these parishes come up to the standard of the Entrance Examination then held in Arts, the Bursaries are open to candidates from any part of Ayrshire. Failing qualified candidates from Ayrshire the Bursaries are open to

<sup>1</sup> Vacant through lapse of time.

all students of the first year. In case of a vacancy, otherwise than by lapse of time, a student of the same standing is appointed by the Senate by examination or otherwise. Each Bursar receives one-half of the free proceeds of the capital sum, £1,000, paid over to the University Court by the founder.

*Bursar*—<sup>1</sup>Robert C. Mitchell, 1891 ; George Cunningham, 1892.

BUCHANAN BURSARIES (*Arts*).—Founded by the late Robert Buchanan, LL.D., Ardfillayne, Dunoon, formerly Professor of Logic and Rhetoric in the University of Glasgow, by Codicils to his Will, dated 26th December, 1871, and 26th March, 1872, in which, as a “token or expression of his gratitude and respect to the University of Glasgow, with which, as a student, or Professor, or member of the University Court, he had been connected for the space of fifty years,” he bequeathed the sum of £1,000 for the purpose of founding a Bursary or Bursaries for students in the Faculty of Arts, on the conditions that may appear to the Senatus best for the interests of the University. The Senate resolved to apply the annual proceeds to the support of two Bursars in Arts, each to hold his Bursary for three years, subject to the usual condition of attending two of the classes of the curriculum in each session ; the Bursars to be appointed by competitive examination among students of the first year. Present value, £13 to each Bursar. (One vacancy.)

*Bursar*—William M. Murray, 1892.

BUCHANAN (BELLFIELD) BURSARIES (*Arts and Theology*).—Founded in 1875, in accordance with the Trust Disposition and Deed of Settlement of the late Misses Margaret Jane and Elizabeth Buchanan of Bellfield, Glasgow. The Bursaries are two in number, and consist of the yearly proceeds of a sum of £4,200, vested in Reduced 3 per cent. Annuities. Open to matriculated students who may be prosecuting their studies at the University of Glasgow, with a view to their becoming licentiates and clergymen of the Established Church of Scotland. The Patrons are the Principal and such of the Professors as hold their appointments from the University Court. The Bursaries are tenable during the whole curriculum “or such portion thereof as to the said Principal and Professors may seem proper.” The Bursars are appointed by competitive examination among students of the first and second years in Arts. Present value, £50 per annum to each Bursar.

*Bursars*—John M. Dickie, 1889 ; Ephraim Henderson, 1890.

BUCHANAN SOCIETY BURSARIES (*Arts or Science*).—These Bursaries, instituted by the Buchanan Society, are of two kinds, Classical and Technical. The former were established in 1877, the latter in 1893. They are open to students of the names of Buchanan, M'Millan, M'Auslan, M'Wattie, and Risk. The Classical Bursaries

<sup>1</sup> Vacant through lapse of time.



are each of the annual value of £30, and tenable for four years at any Scottish University. Candidates must be over sixteen and under twenty years of age. The Technical Bursaries are each of the annual value of £35, and tenable for three years at any Scottish University, or at any of the Technical Colleges of Glasgow, Edinburgh, Dundee, or Aberdeen, approved of by the Society. In the event of a Technical Bursar desiring to take the Degree of B.Sc., his tenure may be extended to a fourth year. Both the Classical and the Technical Bursaries are awarded by competition, the subjects of examination being English and any three selected by the candidate out of the following, viz., Latin, Greek, French, German, Mathematics, Science. Candidates for Technical Bursaries must also shew proficiency in Freehand Drawing. Four Bursaries are given annually, provided a sufficiently high standard is reached by the candidates. The four competitors at the head of the list are appointed to Bursaries, whether Classical or Technical. Applications should be lodged not later than 15th September, with the Secretary, Mr. G. Y. Strang Watkins, 186 West George Street, Glasgow, from whom further information may be obtained.

CELTIC SOCIETY'S CAMPBELL BURSARY (*Any Faculty*).—Founded in 1869 by the Glasgow Celtic Society. Value, at least £5. Tenable for one or more years by a native, or a son of a native, of the Highlands of Scotland, not under 14 nor above 20 years of age, whose circumstances are such as to render aid important. A preference, *ceteris paribus*, to Gaelic-speaking students. Additional Bursaries not exceeding £5 are also granted by the Society, when its funds permit, to Gaelic-speaking students. Applications to be made to the Honorary Secretary, Mr. Charles M. Williamson, 194 West George Street, Glasgow, on or before 1st October in each year. Application forms may be obtained from Mr. Williamson.

*Bursars*—John M'Gregor (Campbell Bursary), 1890.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS (*Arts, etc.*)—(See under "Scholarships.")

JOHN CLARK (MILE-END) BURSARIES (*Arts*).—Founded in 1868, in accordance with the Trust Disposition and Deed of Settlement of the deceased Mr. John Clark, junior, of the firm of John Clark, junior, & Co., thread manufacturers, Mile-End, Glasgow. By a Deed of Constitution of date 1st August, 1866, the "Clark Bursary Fund" is placed under the management of twelve trustees. The Bursaries are to be at least two in number, of the annual value of £30, open for competition to all Protestant students of good moral character, sons of Protestant parents, entering on their first session in the Faculty of Arts (a preference, *ceteris paribus*, given to orphans), and are tenable for four years, subject to the condition that the Bursars proceed through the curriculum of Arts in Glasgow



University. The competition is to be in writing, and the trustees are to appoint the subjects of examination. The Bursary fund consists of the residue of the Testator's estate, said residue amounting to upwards of £30,000. Six Bursaries on this foundation will be competed for in October, 1894.

*Bursars*—<sup>1</sup>David H. Crawford, 1890; <sup>1</sup>James Dick, 1890; <sup>1</sup>William L. Ramsay, 1890; <sup>1</sup>Robert B. Walker, 1890; Robert Howie, 1891; William M. R. Pringle, 1891; William Jordan, 1891; William Boyd, 1891; William H. Low, 1891; John Young, 1891; James W. Copeland, 1892; John W. Henderson, 1892; Alexander J. Martin, 1892; John M. Ramsay, 1892; Gavin Scott, 1892; John Buchan, 1892; Horace F. Wallace, 1893; David H. Tweeddale, 1893; William Fulton, 1893; Joseph White, 1893; James P. Brander, 1893; Robert J. T. Bell, 1893.

COWAN BURSARIES (AYR ACADEMY) (*Arts*).—These Bursaries were founded by the late David Cowan, Esq. of Auchendrane, who bequeathed to the Directors of the Ayr Academy the sum of £2,000, to be invested and held by them in trust, and the annual income thereof applied as Bursaries, to promote the education of two students, one at each of the Universities of Edinburgh and Glasgow, who should have received their previous education, or part of it, at Ayr Academy. These Bursaries are now administered by the "Ayr Educational Trust." Under Scheme 328, Section 26, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 8th February, 1890, the Governors are instructed to apply an annual sum of not less than £80 in establishing Bursaries for University education, to be called the Cowan Bursaries, each of the yearly value of not less than £20 nor more than £30. These Bursaries are awarded by competitive examination among those who have been pupils in the Ayr Academy for at least two years before the date of examination. The Governors have resolved to award them alternately to students of Glasgow and Edinburgh Universities. The Bursaries are tenable for three years, the total value of each being £80, payable by instalments of £30 per annum for the first two years, and £20 for the third year. On a vacancy, intending candidates must send in their names and addresses to the secretary, Mr. J. G. McSkimming, 7 Wellington Square, Ayr, on or before the first day of September; and the Senate of the University of Glasgow undertakes the examination of candidates who offer themselves for the Bursary to be held at this University. (One vacancy.)

*Bursar*—(At Glasgow University)—John Clark, 1893.

CRAIG BURSARY (*Arts*).—Founded by Mr. John Craig, merchant in Glasgow, in 1697, for students in Philosophy. Tenable for four

<sup>1</sup> Vacant through lapse of time.

years. Preference to kindred of Founder, and students of the name of Craig. Value, £8 6s. 8d. per annum, increased by the Patrons in 1880 to £25. Appointment by the Merchants' House. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st September of the year in which a vacancy occurs.

*Bursar*—<sup>1</sup>John B. Craig, 1890.

ARCHIBALD CRAIG BURSARY (*Arts*).—The Rev. Archibald Craig, some time minister of the Free Church at Dalton, thereafter residing at Eaglesham, who died on 10th March, 1873, by his Will, dated 4th March, 1873, bequeathed a sum which, with accretions, now amounts to £250, to be devoted to the foundation of a Bursary in the University of Glasgow. The Trustees of the Bursary Fund are—the Minister for the time being of the Parish of Eaglesham, the Minister for the time being of the United Presbyterian Church, Newton-Mearns, and certain other gentlemen. The Bursary was founded in 1884. It is open to competition, at the annual Bursary Examination, to all students entering on the first session of attendance at the University, who are natives of the parishes of Eaglesham or Mearns, or who for two consecutive years have attended school in either of said parishes; is awarded by the Senate in accordance with the result of that examination; and is tenable for the first two years of such student's attendance at the University. The Bursary is payable at the close of the winter session. Should the Bursary be in abeyance during any session or sessions, from failure of students falling under the above description, the accumulation may, in the discretion of the trustees, be applied to the increase of the Bursary in any subsequent session or sessions, or may be added to the capital fund. (Vacant.)

CRAWFURD OR BISHOP'S BURSARY (*Arts*).—Founded by Captain Thomas Crawford, of Jordanhill, in 1576. Appropriated to a student in Languages. Tenable for four years. Value, formerly a chaldar of meal, now £13 per annum. The Patrons are the Principal and the Professors of the University.

By ordinance of the Universities Commissioners, dated 7th June, 1862, this Bursary is placed upon the same footing as the Forfar Bursaries (for which see p. 211).

*Bursar*—David P. Fleming, 1892.

DAVIDSON BURSARIES (*One in Arts and one in Medicine*).—Two in number, founded in 1881, in terms of the Trust Disposition and Settlement of Mrs. Eliza Davidson who bequeathed £2,000 for that purpose, the one bursary being in memory of her husband, John Davidson, surgeon, Newmilns, and the other in memory of her son, Francis John Ferguson Davidson. A preference is given, *cæteris paribus*, to the Founder's relatives, and to young men natives of the

<sup>1</sup> Vacant through lapse of time.

parishes of Muirkirk, Dalserf, Lesmahagow, and Loudon. One of the Bursaries is open to competition to students of the first or second year in the Faculty of Arts, and is tenable for three years, but the second moiety of the third year's Bursar is not payable until the Bursar shall have obtained two out of the three Departmental Certificates for the Degree in Arts. The other Bursary, also tenable for three years, is awarded to the medical student who stands first in the First Professional Examination, provided that his attendance at the classes has not exceeded the requirements of the Ordinance.

*Bursar in Arts*—<sup>1</sup>James Gillespie, 1891.

*Bursar in Medicine*—Robert Buchanan, 1892.

DENNY BURSARIES (*Any Faculty*).—Four in number, founded in 1875, by Peter Denny, LL.D., engineer and shipbuilder, Dumbarton. Value, not less than £30 per annum each, and tenable for four years. Open for competition to all students entering the University who are not under fourteen years of age, and who have been pupils in regular attendance at the Dumbarton Burgh Academy for at least two years, one of which must be immediately preceding the date of such entry. One of the Bursaries will be competed for at the beginning of next session. The examination will be in the same subjects and at the same time as the examination for the other competition Bursaries. The Trustees are Mr. Peter Denny, Mr. John M'Ausland, the Principal and Professors, and one of the Assessors of the General Council in the University Court.

*Bursars*—<sup>1</sup>Alexander G. Craig, 1890; William Allan, 1891; Robert P. R. Anderson, 1892; John Glen, 1893.

GLASGOW DUMFRIESSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Two in number, the one founded in 1874 and the other in 1876. They are in value, £15 per annum each, are tenable for four years, and consist of the annual proceeds of a sum subscribed by members of the Glasgow Dumfriesshire Society and invested for the establishment of Bursaries in Glasgow University. The Bursaries are open to first and second year's students, between the ages of 14 and 21, who are either descendants of members of the Glasgow Dumfriesshire Society, or natives of Dumfriesshire, or sons of natives resident in Glasgow, whose circumstances render the aid of a Bursary necessary or desirable. Application to be made to the Secretary, Mr. Francis Stoddart, 58 West Regent Street, Glasgow, not later than 1st September of the year in which a vacancy occurs.

*Bursars*—<sup>1</sup>John Affleck Hope, 1890; James A. Maclean, 1892.

DUNCAN'S BUTE BURSARIES (*Arts*).—Founded in 1875 for the benefit of natives of the island of Bute, by Mr. James Duncan, of Valparaiso, and afterwards of Rothesay, who by his Will of date 19th October, 1874, bequeathed £2,000 for this purpose. The

<sup>1</sup> Vacant through lapse of time.

Trustees and Patrons are the Principal, the Professor of Mathematics, the Professor of Natural Philosophy, and the Provost of Rothesay, all for the time being. Candidates must be natives of the island of Bute, and must be entering on their first or second session in the Faculty of Arts at the University. The Bursaries are two in number, tenable for four years; but the Patrons may in each case continue the Bursary for a fifth year to assist a student who may have been assiduous in his Academical studies, in private study, or in Continental travel, or other pursuits conducive to relaxation, combined with enlargement of his experience of men and things. The examination is in the same subjects and at the same time as the examination for the other competition Bursaries. There is a preference, *cæteris paribus*, to the name of Duncan, in such degree as the Patrons shall determine; in other cases of equality the Bursary may be divided. Present value, £35 to each Bursar. The next appointment will be made in 1895.

*Bursar*—George Murray, 1892.

DUNDONALD BURSARIES (*Eight in Arts and Six in Theology*).—In 1672, William, Earl of Dundonald, founded seven Bursaries—four in Philosophy and three in Divinity. The Philosophy Bursaries are tenable for four years; the Divinity Bursaries for two years.

The Bursars in Philosophy receive £40 each per annum, and those in Divinity, £41 2s. 6d. The appointment is now vested in the Duke of Hamilton.

In 1858, the surplus funds of this foundation having greatly accumulated, an Act of Parliament was obtained, authorizing an increase in the number of Bursars, but providing that the total number of Bursars in Philosophy shall, at all times, bear to the number of Bursars in Divinity the proportion of four to three, as nearly as may be. The Bursaries are now fourteen in number—eight in Philosophy and six in Divinity.

*Bursars in Philosophy*—<sup>1</sup> John Shaw, 1890; <sup>1</sup> Henry A. Williamson, 1890; John Struthers, 1891; George S. Adams, 1891; Archibald Hunter, 1891; John A. Black, 1892; Ronald C. Kerr, 1892; Robert A. Gray, 1893.

*Bursars in Divinity*—<sup>1</sup> Alexander Maclellan, 1892; <sup>1</sup> John B. Mackenzie, M.A., 1892; John A. Nicholls, 1893; Robert H. Kerr, 1893.

ELDER BURSARIES.—With a view to the encouragement of merit shown by the sons of working men, Mrs. Elder has intimated her intention of giving annually to the most deserving student of the Science and Art Classes in connection with the Young Men's Christian Association, Govan Section, a Bursary of £25 per annum, to which will be added by the Department of Science and Art an equal sum, making £50 in all. The Bursaries will be tenable for two years.

<sup>1</sup> Vacant through lapse of time.

Candidates must have taken the undermentioned classes in the Govan Science and Art Section :—Mathematics (2nd stage); Theoretical Mechanics (Elementary); Steam and the Steam Engine, or Naval Architecture (advanced stage).

The competition by which the Bursar is to be selected will be in the above subjects, and will be conducted by the Department of Science and Art at the May examination. The sixth examination will be held in May, 1894.

Candidates must be employed in workshops on the Govan side of the Clyde from Glasgow to and including Renfrew, or must reside in the district. A Bursar will be required to enrol in and attend the following classes at the University during the first year of his attendance :—(1) Natural Philosophy ; (2) Chemistry (lectures); (3) Mathematics ; (4) Naval Architecture and Marine Engineering. During the second year of attendance : (1) Mathematics ; (2) Civil Engineering and Mechanics (lectures); (3) Naval Architecture and Marine Engineering. These Bursaries are to be continued during Mrs. Elder's pleasure.

JAMES EWING ENTRANCE BURSARIES (*Arts*).—Four in number, founded in 1879, by the Merchants' House of Glasgow, in accordance with the Deed of Endowment of the late Mr. James Ewing of Strathleven. The Directors resolved to apply annually £80 of the income of his legacy of £10,000 for educating, training, and settling in business the sons of Glasgow merchants in entrance Bursaries of £20 each. The Bursaries are tenable for four years by students giving regular attendance on classes in the Faculty of Arts. Open to first year's students. The appointments to the Bursaries will be made in accordance with the annual Bursary competition at the commencement of the session ; candidates to be qualified as above. Applications to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September, in each year. (One vacancy.)

*Bursars*—James N. Gray, 1891 ; Charles R. McClure, 1892 ; Allan M. Watson, 1893.

EXCHEQUER BURSARIES (*Arts and Theology*).—These Bursaries, six in number, were founded by King William III., in 1695. They are tenable for six years ; the first in Logic, the second in Moral Philosophy, the third in Natural Philosophy, and the last three in Divinity. In case of a vacancy by death or otherwise, a student of the same standing with the late Bursar is appointed for the remainder of the time. The Bursars in Philosophy receive £10 per annum each, and those in Divinity £13 6s. 8d.

*Bursars*—<sup>1</sup> Ernest S. Gunson, 1891 (1888) ; Guy S. Peebles, 1892 (1889) (Divinity) ; Andrew E. Wallace, 1890 (Divinity) ; Duncan M. Macrae, 1891 (Divinity) ; Daniel Scott, 1892 (Nat. Phil.) ; Maxwell R. Kirkpatrick, 1893 (Mor. Phil.).

<sup>1</sup> Vacant through lapse of time.



JAMES FERGUSON BURSARIES (*Theology, Law, Medicine, or Department of Engineering Science*).—Two in number, founded in 1877, under provision of the Trust Disposition and Settlement of the late James Ferguson, Esq., of Wiston, and consisting of the annual proceeds of a sum of £3,600. The Bursaries are tenable for two years in any of the three Faculties of Divinity, Law, or Medicine, or in the Department of Engineering Science. The Bursaries are awarded for special proficiency in Arts studies, according to the following rotation, viz. :—In November, 1878, and thereafter, triennially, in Mental Philosophy, including English Literature ; in November, 1879, and thereafter, triennially, in Mathematics and Natural Philosophy ; in November, 1880, and thereafter, triennially, in Classical Literature. The Examination is the same as that for honours in the corresponding department (with the addition in the case of the Department of Mental Philosophy of a paper on English Literature), at the annual Examination for Degrees in November. Candidates must have completed the course of attendance required for admission to examination in the corresponding department for the Degree of M.A. Each Bursar must pursue the course of study for such Degree in Divinity, Law, Medicine, or Engineering Science, as he may, with approval of the Senate, select. In the event of a successful candidate not having completed attendance on the Arts classes necessary to qualify for the Degree of M.A., he shall be at liberty, without forfeiting his right to the Bursary, to continue his studies in Arts for two years, in order that he may complete his qualifications for graduation ; but no part of the Bursary shall become payable until he has selected and entered upon a course of study in one of the three Faculties above mentioned, viz. :—Divinity, Law, or Medicine, or in the Department of Engineering Science. While the Bursary is tenable for two years of such course, the Bursar must continue his attendance on classes beyond the two years, if this be necessary for graduation or for receiving the Certificate of Proficiency in Engineering Science. The Bursar shall not receive payment of any half-yearly Bursar without such evidence as the Senate may require that he is faithfully pursuing the selected course, and shall not receive payment of the fourth half-yearly Bursar until he has graduated or received the Certificate of Proficiency in Engineering. Unless a candidate comes up to at least the standard of Second Class Honours, the Senate shall not be bound to award the Bursary. There is a preference, *ceteris paribus*, to young men natives of the parishes of Lesmahagow or Muirkirk, or the province of Pictou, Nova Scotia, and also to young men of the name of Ferguson or Weir, or to descendants and relatives of the founder.

Candidates for the Bursary to be competed for in 1894 will be examined in Mathematics and Natural Philosophy, on *Friday, 12th October, and Saturday, 13th October*, along with the examinations on these subjects for the Degree of M.A. Names to be given



in to the Assistant Clerk (Matriculation Office) not later than 26th September.

*Bursars*—<sup>1</sup>John M'Gilchrist, M.A., 1892 ; Robert S. Horne, 1893.

**FORFAR BURSARIES (*Arts*).**—Founded by the Countess of Forfar in 1737, and foundation remodelled by the Universities Commissioners, by ordinance of 31st May, 1862. There are now four Forfar Bursaries in the gift of the Senate: the holder of each to receive £30, if the funds allow. These Bursaries are open for competition to all students entering the first or second session of attendance in the Faculty of Arts, and are tenable for four years ; subject, in each case, to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A. In the event of a vacancy occurring otherwise than by lapse of time, a student of the same standing as the late Bursar may then be appointed for the remainder of the period, otherwise the Bursary continues vacant till the end of that period.

*Bursars*—<sup>1</sup>Joseph F. M'Fadyen, 1890 ; John S. Thomson, 1891 ; William L. Parkin, 1892 ; George D. Valentine, 1893.

**FORREST BURSARIES (*Any Faculty*).**—Founded by Mr. William Forrest of Easter Meadowhead, Drumgelloch, and Meadowside, by Deed of Mortification, of date 6th March, 1858. The Trust was reconstituted in 1886, under a Scheme of the Educational Endowments Commission. The Bursaries are five in number, each of the annual value of £22, and tenable at the University of Glasgow, for such number of years, not exceeding five, as the Governors may determine. The Bursaries are awarded by competitive examination among young men who require aid in obtaining a University education, and who have been pupils in public or State-aided schools within the parishes of New Monkland, Slamannan, and Shotts, or who are natives of said parishes. Bursars cannot hold another Bursary, must prosecute a course for some degree, and attend at least two classes each session.

**Governors**—The Provost of Airdrie, the ministers of the parishes of New Monkland, Airdrie, and Clarkston, one representative from each of the School Boards of Airdrie and Clarkston, and one from the School Boards of Slamannan and Shotts alternately, and one appointed by the Sheriff of Lanarkshire. Secretary and factor, Mr. James Chapman, Town-clerk, Airdrie. (One vacancy.)

*Bursars*—Robert B. Wiseman, 1892 ; Andrew Clark, 1892 ; Thomas Bell, 1892 ; James Wishart, 1893 ; Andrew Scoullar, 1893.

**FOUNDATION BURSARIES (*Arts*).**—These Bursaries, four in number, were founded by James VI., in 1577, for students in Languages and Philosophy. The value of each is £10 per annum. The right of

<sup>1</sup> Vacant through lapse of time.

presentation belongs to the Senate. By ordinance of the Universities Commissioners, of date 7th June, 1862, these Bursaries are put upon the same footing as the Forfar Bursaries (for which see above).

*Bursars*.—<sup>1</sup>John C. Scott, 1893 (1890); William Watson, 1891; John L. Wark, 1892; Francis M. Cockburn, 1893.

FULLARTON OF OVERTON BURSARIES (*Arts*).—By Deed of Mortification and Constitution, dated 22d December, 1877, the Executors of the late John Fullarton, Esq. of Overton, West Kilbride, Ayrshire, in pursuance of his Trust Disposition and Settlement and Codicils, assigned to the Principal and Professors of Glasgow University, as Patrons, the residue of his estate, amounting to £2,604 17s. 7d., for the purpose of founding five Bursaries, more or less, each of the annual value of at least £10, but not exceeding £30. The Bursaries are tenable for two years by students in Arts under 25 years of age, belonging to or resident in the district of Cunninghame, in Ayrshire, children of parents whose means and social position are not above those of tradesmen, small farmers, or shopkeepers, or others who may be struggling to secure their better education, and are by themselves, or with such assistance as they may be able to get from their parents or relations, unable to provide for the expenses of a University education. The Bursaries are awarded by competitive examination in Latin, Elementary Mathematics, and English; but no candidate is eligible who has attended any University for more than one session. A Bursary may be divided between two candidates of equal or nearly equal merit, but as between a candidate who has not previously attended any University and a candidate who has so attended, the former is preferred. A Bursar may attend each session one or more of the classes in the Faculty of Arts, the selection of classes being left to his own option. Any accumulations through vacancies are added to the capital sum. Candidates are required to produce evidence of age. (Two vacancies.)

*Bursars*.—John Jeffrey, 1893; David L. Blair, 1893; James C. Ker, 1893.

GENERAL COUNCIL BURSARIES (*Arts*).—Under a scheme originated by Mr. David Hannay, clerk to the General Council, a sum of about £500 (Fund No. I.) was raised by subscription among the members of Council for the foundation of Bursaries to be held for three years, and open to competition to first and second year's students in Arts. This fund has now been exhausted. In addition, a sum of £2,300 (Fund No. II.) has been raised to form the nucleus of a permanent General Council Bursaries Fund. Of this sum £1,000 is due to the liberality of the late Rev. Wm. Park, D.D., minister of Airth, to be applied in memory of his brother, the Rev. John Park, D.D., minister of Cadder. With Dr. Park's consent, this sum was appropriated to

<sup>1</sup> Vacant through lapse of time.

two Park General Council Bursaries of £20 a-year, open to second year's students, and tenable for two years. (Two vacancies.)

*Bursars*—<sup>1</sup>William Gow, 1891 ; James C. Kinnis, 1892 ; Andrew Stewart, 1893 ; <sup>1</sup>Arthur S. Middleton, 1892 (Park) ; Allan Gibson, 1893 (Park).

JOHN GIBSON BURSARIES (*Any Faculty*).—Founded in 1877 by Miss Jane Gibson, in memory of her father, John Gibson, of Oakbank and Johnstone, merchant in Glasgow. The Bursaries, which may be given to one student, or at most two, consist of the annual proceeds of £1,000. The administration is vested in trustees, who have great discretionary powers as to the conditions on which the Bursaries may be held. Their subsisting resolution is to award the Bursary to a Medical student entering on the second or third year of his course, to be retained for three years, with a reserved power to the Trustees, in the case of a Medical student entering on his second year, to continue the same for a fourth year to any specially deserving Bursar. When a vacancy occurs applications are to be made in September to James Graham, LL.D., writer, 198 West George Street, Glasgow, who will furnish forms of application.

*Bursars*—<sup>1</sup>Robert W. Forrest, 1890 ; Anthony Vost, 1892.

DR. THOMAS GIBSON (ROTHESAY) BURSARY (*Medicine*).—Founded in 1893 in terms of the Trust Disposition and Settlement of Misses Christian and Janet Gibson, who bequeathed £1,000, free of legacy duty, for that purpose, in memory of their brother. The Bursary is tenable by Medical students attending the University of Glasgow and preparing for service as Medical missionaries in connection with the Church of Scotland, a preference being given, *ceteris paribus*, to students of the name of Gibson.

GILCHRIST BURSARY (*Arts*).—Founded by Mr. John Gilchrist, in 1700, for a student in Philosophy, being the son of a tradesman freeman in the Burgh of Glasgow. Preference to names Gilchrist, Bryce, and Boyd. Value, £8 per annum. Appointment by the Trades' House. (Vacant.)

GILHAGIE BURSARY (*Theology*).—Founded in 1753 by Agnes Gilhagie, widow of William Somerville, merchant in Glasgow, for a student in Divinity. Tenable for four years. Value, £6 6s. per annum. Appointment by the Magistrates, Town Council, and Ministers of Glasgow.

*Bursar*—Thomas N. Allan, 1892.

GLASGOW CITY EDUCATIONAL ENDOWMENTS BURSARIES (*Arts, etc.*).—Under scheme 10, section 31, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 19th May, 1885, the Governors of the Glasgow City Endowments Board are instructed to apply the annual sum of £500 in establishing Bursaries

<sup>1</sup> Vacant through lapse of time.

at the University of Glasgow. Each Bursary is of the yearly value of £25. One half of these Bursaries are to be awarded among the Queen's Scholars at Training Colleges who have attended two years at the University of Glasgow, on the report of the Board of Examiners appointed by the Scotch Education Department. Every Queen's Scholar obtaining such Bursary shall be taken bound to complete his curriculum for a degree in Arts or Science during the time he holds the Bursary, and thereafter to submit himself for examination for such degree. The other half of the Bursaries are to be awarded by competitive examination among those who have attended public or State-aided schools in Glasgow, and who require aid in obtaining a University education. They are tenable for four years. Forms of application may be had from the Secretary of the Board—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary at the general competition. In 1894 five Queen's Scholars and two other Bursars will be appointed.

*Bursars*—<sup>1</sup> Archibald McCallum, 1890; <sup>1</sup> James Pollock, 1890; Hyam Goodman, 1891; Adam C. Muir, 1891; John W. Fulton, 1892; John Wotherspoon, 1892; William C. Dick, 1893; Robert Tennent, 1893; Samuel L. Fulton, 1893.

*Queen's Scholars*—<sup>1</sup> David H. McCurtain, 1892; <sup>1</sup> Robert Simpson, 1892; <sup>1</sup> Ebenezer Mitchell, 1892; <sup>1</sup> William A. Lindsay, 1892; <sup>1</sup> Joseph Hood, 1892; Samuel J. Murray, 1893; James A. Reid, 1893; William Jordan, 1893; James M'Murtrie, 1893; John Miller, 1893.

GEORGE GRANT BURSARY (*Arts*).—Founded in 1885 by Miss Susan Smith Grant, of West Thorn, Lauder Road, Edinburgh, in memory of her father, George Grant, Esq., cotton spinner, Mile-end, Glasgow. Miss Grant assigned and conveyed to the Senate the sum of £1,200 in trust, to be applied in all time coming for providing one Bursary in connection with the Faculty of Arts. Miss Grant retains the right of nomination to the Bursary during her lifetime, but has provided that in the event of her failing or declining to nominate, and in all cases after her death, the Bursar shall be determined by competitive examination of first year students who are entering on a three or four years' course of study, and the Bursary shall be tenable for three or four years accordingly. On the Bursary falling vacant otherwise than by lapse of time, an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar is required to graduate in Arts, and before payment of

<sup>1</sup> Vacant through lapse of time.

the second moiety of the last year's Bursary he must produce evidence that he has taken his degree, or that he has obtained all the certificates necessary for graduation. Any accumulations from vacancies or otherwise are to be added to the capital sum.

*Bursar*—John Jeffrey, 1893.

GEORGE GRANT, JUNIOR, BURSARY (*Arts*).—Founded in 1885 by Mrs. Agnes Grant or Mair, wife of the Rev. John Mair, D.D., minister of the parish of South Dean, Roxburghshire, in memory of her brother, the late George Grant, junior, cotton manufacturer, Mile-end, Glasgow. Mrs. Mair, with the advice and consent of her husband as her curator and administrator-in-law, and for his interest in the premises, assigned and disposed to the Senate the sum of £1,200 in trust, to be applied by them in all time coming for providing one Bursary in connection with the Faculty of Arts. Mrs. Mair reserves to herself during her lifetime, and thereafter to her husband, should he survive her, the right to nominate to the Bursary, and to fix the classes to be attended by the Bursar and the period of his tenure. After the death of the survivor the period of tenure of the Bursary is to be four years, and the Bursar is to be selected by competitive examination of first year's students. In the event of a vacancy occurring otherwise than by lapse of time an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar shall require to graduate in Arts, and before payment of the second moiety of the last year's Bursary shall produce evidence that he has taken the degree, or that he has obtained all the certificates necessary for graduation. Any accumulations through vacancies or otherwise to be added to the capital sum.

*Bursar*—Daisy Annabella Bennett, 1894.

HAMILTON BURSARIES (*Arts and Theology*).—These Bursaries, now six in number, were founded by Anne, Duchess of Hamilton, in 1694. The conditions of tenure are exactly the same as in the case of the Exchequer Bursaries; see page 209. The Bursars in Philosophy receive £20, and those in Divinity £25, per annum each. The right of presentation is vested in the Duke of Hamilton. (Regulated by Act of Parliament, 1758.) (One vacancy.)

*Bursars*—John C. McNaught, 1889 (Divinity); Charles Macdonald, 1890 (Divinity); William G. Cameron, 1891 (Divinity); David Swan, 1892 (Nat. Phil.); John K. Cameron, 1893 (Mor. Phil.).

HAMILTON EDUCATIONAL TRUST BURSARIES (*Arts*).—Under scheme 39, section 28, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 13th May, 1887, the Governors of Hamilton Educational Trust are instructed to apply a sum, not less than £50 yearly, in providing University or Technical College Bursaries. These Bursaries, each of the yearly value of £15,



and tenable for three years, are open to be competed for by pupils attending public or State-aided schools in the burgh and parish of Hamilton, who require aid in obtaining a University or higher education. Applications to be lodged with Patrick Keith, Esq., Hamilton, Clerk of the Trust, on or before the first day of September.

*Bursars*—<sup>1</sup>R. A. Gray, 1891; Gavin Scott, 1892; Robert J. T. Bell, 1893.

**HANNAY BURSARIES** (*Arts*).—Three in number, founded in 1865 by the late Mr. Anthony Hannay, merchant, Glasgow, in memory of his deceased wife. To be awarded to young men, not under fourteen, and not above nineteen years of age, who are about to commence their studies in the Arts classes, with a view to the Holy Ministry in connection with any of the Evangelical Religious Denominations in Scotland, and who shall engage to attend during each of the first three years of the curriculum not fewer than two classes. The principal qualifications of those to be selected are good moral character, promising talent, a fair preliminary education, and a want or deficiency in the necessary pecuniary means for pursuing a University education. Candidates for these Bursaries are required to submit themselves to the annual Bursary Examination at the commencement of the Winter Session of the University of Glasgow, or such other examination as the trustees may appoint; but the result of said examination shall only be taken as one of the tests in judging of the merits of the applicants. The Bursaries to be bestowed for three years—one to be given each year. Value, about £15 per annum each. The appointment is vested in the Principal, the Dean of the Faculty of Procurators in Glasgow, and the President of the Faculty of Physicians and Surgeons in Glasgow. Applications to be made to Mr. Robert Brodie, 77 St. Vincent Street, and also to the Assistant Clerk (Matriculation Office) not later than 1st September.

*Bursars*—<sup>1</sup>Arthur S. Middleton, 1891; Munro Somerville, 1892; John U. Ogilvy, 1893.

**HASTIE BURSARIES** (*One in Arts and Two in Theology*).—The Rev. Mr. Hastie, by Deed of Mortification dated 5th September, 1707, founded a Bursary for a student in this University, which was first awarded in 1718. By an addition since made to the foundation, the number of Bursaries is increased to three, two in Divinity and one in Philosophy.

By ordinance of the Universities Commissioners, 31st May, 1862, there are three Bursaries on this foundation, each £25 in value—one in Arts, tenable on the same conditions as the Forfar; the other two in Theology, open to competition to all Masters of Arts

<sup>1</sup> Vacant through lapse of time.



of any of the Scottish Universities entering upon the first or second year in Divinity, and tenable for three years.

*Bursar in Arts*—(Vacant.)

*Bursars in Theology*—<sup>1</sup>Donald D. Macdonald, M.A., 1892 (1891); George G. Duncan, M.A., 1892.

GLASGOW HIGHLAND SOCIETY'S BURSARIES (*Twelve in Arts and One in Medicine*).—In 1892 the managers of the Glasgow Highland Society framed a scheme of Scholarships and Bursaries for students of Highland descent. The scheme includes Scholarships tenable at Secondary or Technical Schools, and Bursaries tenable at the Glasgow and West of Scotland College and at the University. The University Bursaries in Arts are twelve in number, each of the annual value of £20, and tenable for four years in the Faculty of Arts, but the continuance of a Bursary in the second and subsequent years is dependent on the character of the certificates obtained by a Bursar in his classes in the previous year. They are awarded by competition among students of the first year. The Bursary in Medicine, of the annual value of £25, is tenable for four years in the University, or any other College approved by the managers. Candidates must pass the preliminary examination of the College at which they desire to attend, and the managers reserve to themselves the right to appoint the most suitable.

*Bursars*—Archibald Anderson, 1892; John M'Nab, 1892; Robert Orr, 1892; Neil Ross, 1892; Ebenezer H. Fraser, 1893; Charles M'Pherson, 1893; Gilbert Dick, 1893; Duncan Matheson, 1893; Hector W. Mackay, 1893.

HOWISON BURSARY (*Arts*).—Founded in 1613 by the Rev. John Howison, of Cambuslang. The Bursar to be a qualified scholar of honest name and good report, son of a craftsman of Glasgow, whom failing, any other qualified scholar selected by the Patrons. Annual value, £9. Appointment by the Trades' House. "The Bursar to pass his course within the College." (Vacant.)

HUTCHESONS' EDUCATIONAL TRUST BURSARIES.—Under Scheme 9, Section 40, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 5th March, 1885, the Governors of Hutchesons' Educational Trust are instructed to apply an annual sum of not less than £400 in establishing University or Technical College Bursaries. These Bursaries, each of the yearly value of £20, and tenable for four years, are open to be "competed for by boys who have attended not less than two sessions in the Secondary Department of Hutchesons' Grammar School." Forms of application may be had from the Secretary of the Trust—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the first day of September in each year. The names of candidates who are found to possess the prescribed

<sup>1</sup> Vacant through lapse of time.

qualification will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in the order of merit who fail to win a Bursary at the general competition. In 1894 five Bursars will be appointed.

*Bursars*—<sup>1</sup>John Cumming, 1890; <sup>1</sup>James L. Forrest, 1890; <sup>1</sup>John S. Leishman, 1890; <sup>1</sup>Joseph Shillinglaw, 1890; James Weir, 1891; Robert O. Whyte, 1891; Lewis M'Lachlan, 1891; James G. Green, 1891; Richard N. Pattison, 1891; James MacFarlane, 1892; John M. Stewart, 1892; Robert Howie, 1892; John Brash, 1893; Robert F. Ballantyne, 1893; John Edgar, 1893; Thomas M'Laren, 1893.

**HYNDFORD BURSARY** (*Arts*).—Founded in 1617 by Mr. Michael Wilson, for a student in Philosophy. Tenable for four years. Value, £6 13s. 4d. per annum. The right of presentation belongs to the representative of Sir James Carmichael, who is at present Sir W. C. Anstruther, Bart. *Bursar*—Henry Murphy, 1893.

**JOHN FERGUSON JAFFREY BURSARY IN MENTAL PHILOSOPHY** (*Arts*).—This Bursary, founded in 1877, is of the annual value of £34, "and shall be awarded to a student on entering the third session of his attendance, *i.e.*, a student who has attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who, having passed the Preliminary Examination in Humanity and Greek, has attended for one session the higher classes in those subjects, and who intends to prosecute a full course in the Department of Mental Philosophy, including English Literature." Candidates are examined in such subjects in English Literature and Logic as may be fixed by the Senate. The examiners are the Professors of English Literature, Logic, and Moral Philosophy. The Bursary "shall, as a rule, be tenable for two years, but on condition that the Bursar, during the two years of his tenure, shall complete his attendance on the classes in the Department of Mental Philosophy (including English Literature, unless he shall have attended that class during one of his previous sessions), and shall also attend one at least of the advanced classes taught by the Professors of Logic and Moral Philosophy, and shall pass the departmental examination in Mental Philosophy for degrees." The subjects of examination are—Professor Veitch's *Institutes of Logic*, Part I. (Large print only); Descartes (English Translation of 1879 or subsequent edition), *Introduction*, sections I., II., III., IV., V., VI.; *Meditations*, I., II., III., IV.; Shaw's *English Literature* (Murray's Student's Manual) Chaps. IV., V., VI., VII., XI.; Shakespeare's *Julius Cæsar*, as edited by Beeching (Longman's Falcon Series); Zeller's *Socrates and the Socratic Schools* (translated by Reichel), pp. 1-200.

*Bursar*—William K. Gillies, 1893.

<sup>1</sup> Vacant through lapse of time.

MALCOLM KERR BURSARIES (*Science, etc.*).—Two in number, founded in 1874, and consisting each of half the free annual proceeds of a sum of £1,000, bequeathed by the late Mr. Malcolm Kerr, stationer in Glasgow. One of the Bursaries is in Natural Philosophy, the other in Chemistry. The Bursaries are given on examination, and are tenable for three years, provided the Bursars continue for so long to prosecute in the University Laboratories, to the satisfaction of the Senate, the study of Natural Philosophy and Chemistry respectively. The subjects of examination in Natural Philosophy are the same as those for M.A., with Second Class Honours; and in Chemistry, the same as those for M.A., with Honours in Natural Science. Present value, £15 to each Bursar. The next appointment in Natural Philosophy will be made in 1895.

THE KINTYRE (KER) BURSARY (*Any Faculty*).—This Bursary, founded in 1862 by Robert Ker, Esq., of Auchinraith, merchant in Glasgow, originated in the Founder's desire "to increase the opportunities of acquiring knowledge to the natives of Kintyre."

The Office-bearers of the Kintyre Club were appointed Patrons. By the Deed of Mortification, the free proceeds of a sum of £500 sterling—about £20 sterling—were appointed to be paid to a student to be nominated by them, and who should enjoy the said Bursary for the term of three years while prosecuting his studies at the Glasgow University, with power to the Patrons to determine, in every case, whether the Bursary should be granted for a longer or shorter period than three years, but in no instance is it to be granted for a longer period than four years to the same student. No restriction is placed upon the student as to his profession or calling. Applicants must be connected with Kintyre, and be entering the University for the first time. When a vacancy occurs application should be lodged with the Honorary Secretary of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow, on or before 10th June.

*Bursar*—John Girvan, 1893.

THE KINTYRE (ALEXANDER LOVE) BURSARY (*Any Faculty*).—This Bursary was founded in 1890 by the family of the late Alexander Love, of Campbeltown. It consists of the free proceeds of a sum of £300 sterling—about £11—and is administered by the Office-bearers of the Kintyre Club. The Bursar must be a native or the son of a native of Kintyre, or actually resident there, and entering upon his first session at the University. His circumstances must be such as to render aid important. The period of tenure is not to exceed four years. When a vacancy occurs application should be made to the Hon. Sec. of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow.

*Bursar*—James Moffat, 1891.

**LAING BURSARY OR BURSARIES (*Arts*).**—The late Alexander Laing, LL.D., some time Professor of Mathematics in Anderson's College, Glasgow, who died in 1882, bequeathed to trustees the sum of £500 to found one or two Bursaries in the Faculty of Arts. The trustees by a deed, dated 26th July, 1883, conveyed to the Senate the sum of £500 of the preference 4 per cent. stock of the Glasgow and South-Western Railway Company, under certain conditions and regulations. The foundation is for providing, in the option of the Senate, one Bursary of £20, or two of £10 each. The Bursary is open to competition to all students entering on their first session in the Faculty of Arts (a preference being given, *ceteris paribus*, to natives of Brechin). The period of tenure is three years. Should the Bursary become vacant otherwise than by lapse of time, the income of the fund during the vacancy is to be added to capital.

*Bursar*—John J. Ross, 1893.

**JAMES LAING BURSARIES (*Arts*).**—Founded in 1892, under the Trust Disposition and Settlement of Mr. James Laing, Writer, Denny. So far as the funds admit, the Trustee appoints annually to two Bursaries, each of the annual value of £25, and tenable for four years. They are open to candidates who have been educated for at least three years in any school or schools in the County (including the Burgh) of Stirling, and who are entering upon their first or second year of study in the University of Glasgow. Applications with certificates of qualification and good conduct from the teacher or teachers under whom candidates have been educated, should be lodged with Mr. William Jenkins, Writer, Denny, not later than 1st September. The names of candidates who are found qualified will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries. Failing candidates qualified as above, the Bursaries are open to competition to students of the first or second year from any part of Scotland. (Two vacancies.)

*Bursars*—James C. Saunders, 1892; William Phillips, 1893; William Thomson, 1893.

**LAMB BURSARY (*Arts or Theology*).**—Founded in 1863, by the late Rev. Dr. William Lamb, minister of Carmichael, and appropriated to a student in Arts or Divinity. Bursar appointed by the Minister and Kirk Session of Carmichael, and a preference given to any applicant in the parish of Carmichael or Pettinain, whom failing one may be chosen from any other parish in the Presbytery of Lanark. Value about £12 per annum.

*Bursar*—Andrew S. Gilchrist, 1893.

**LEADBETTER BURSARY (*Arts*).**—Founded in 1855 by Mr. John Leadbetter, merchant, Glasgow. It is £9 in value and tenable for four years; the Bursar attending Greek and Latin the first year;

Logic and Mathematics the second year; Moral Philosophy and Mathematics the third year; and Natural Philosophy the fourth year. Preference to boys who have attended the five years' Classical Course of the High School of Glasgow. Patrons—The Lord Provost and Magistrates.

*Bursar*—William C. Mitchell, 1891.

LEIGHTON BURSARIES (*Arts and Theology*).—Robert Leighton, Archbishop of Glasgow, founded in 1681 two Bursaries, at present of the value of £9 per annum each. They are tenable for four years in Philosophy, and two or three years in Divinity. On a vacancy, two students are nominated by the Town Council, and examined by the Senate, who prefer the best scholar.

*Bursars*—John L. C. Tulloch, 1891; Thomas Carruthers, 1891.

JOHN LEYDEN BURSARY (*Arts*).—Founded in 1879 by the Glasgow Border Counties Association in memory of John Leyden, poet and scholar. The Fund consists of the sum of £429 3s. 8d. raised by subscription. The Bursary is open to free competition under the same regulations as the competition Bursaries in the University. Tenable for three years. The holder to pass through the Arts course, and at the termination thereof to take the Degree of M.A.

*Bursar*—James E. Henderson, 1893.

OLD LIBRARY BURSARY (*Theology, Law, or Medicine*).—Founded by Mr. Hutcheson, of Lambhill, in 1641. Tenable for four years. Value, £11 2s. 2½d. per annum. The Bursar must be M.A. Preference to a son of a burghess, particularly one of the name Hutcheson or Herbertson. The Patrons are the Magistrates and Town Council of Glasgow.

*Bursar*—Edward J. Primrose, 1891.

JAMES LOCHHEAD BURSARY (*Arts*).—Founded in 1886 in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £500 for that purpose, in memory of her brother, who died in Ohio. A preference is given to students of the name of Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. The Bursary is tenable for three years in the Faculty of Arts. (Vacant.)

LOCHHEAD AND MITCHELL BURSARIES (*Arts*).—Two in number and of equal value, founded in 1886, in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £2,000 (free of legacy duty) for that purpose. A preference is given to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. They are tenable for four years in the Faculty of Arts.

*Bursars*—Ebenezer Mitchell, 1891; James D. Mitchell, 1892.



LOGAN BURSARIES (*One in Theology and One in Medicine*).—Two in number, one in Divinity and one in Medicine, founded in 1863, by Mrs. Logan, widow of Mr. William Logan, tinsmith in Glasgow. The Bursary in the Faculty of Divinity is tenable for three years, and the one in the Faculty of Medicine for four years. A preference, *cæteris paribus*, is given to the names Logan and Johnstone. The value of each is £16 per annum. Appointment by the Senate.

*Bursar in Theology*—John G. Cranmer, 1893.

*Bursar in Medicine*—Alexander D. Thompson, 1893.

LORIMER BURSARIES (*Four in Theology, Four in Medicine, and Eight in Arts*).—By Trust Disposition and Settlement, of date 17th October, 1872, the late Mr. John Lorimer, merchant in Glasgow, directed his Trustees to make over to the Principal and Professors of the University of Glasgow, the residue of his estate, amounting to the sum of £8,594 5s. 5½d., the annual proceeds of £5,000 thereof to be applied in payment of Bursaries of an amount not exceeding £50 each, and tenable for three years. One Bursary at least is to be payable to a matriculated student of each of the following subjects:—1, Theology; 2, Medicine; 3, Philosophy; 4, Mathematics; and the proceeds of the remainder of such residue are to be applied in payment of smaller Bursaries tenable by students of the above-mentioned subjects.

The following regulations have been adopted by the Senate:—

1. The Bursaries shall be sixteen in number—namely, eight of the annual value of £25, and eight of the annual value of £20, and shall be tenable for three years.

2. Four Bursaries—viz., two at £25, and two at £20 shall be held by Students of Theology, and shall be open to competition to students entering the Divinity Hall. The second moiety of the third year's Bursary shall not be paid until the Bursar shall have passed the examination for the degree of B.D.

3. Four Bursaries—viz., two at £25, and two at £20, shall be held by Students of Medicine, and shall be open to competition to students who have attended the first session of their professional study in the University of Glasgow, and who have passed the Preliminary Examination for Degrees in Medicine, or who possess such a degree in Arts as is recognized by the University as exempting from the Preliminary Examination. The subjects of examination, which shall be prescribed by the Medical Faculty, are Elementary Anatomy, Elementary Chemistry, and Botany. The second moiety of the third year's Bursary shall not be paid until the Bursar shall have passed his Final Professional Examination for the degree of M.B.

4. Four Bursaries—viz., two at £25, and two at £20, shall be open for competition to students entering on their third session of



attendance, *i.e.*, students who have attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who, having passed the Preliminary Examination in Humanity and Greek, have attended for one session the higher classes in those subjects, and who intend to prosecute a full course in the department of Mental Philosophy, including English Literature. Candidates shall be examined in such subjects in English Literature and Logic as may be fixed by the Senate. The Examiners shall be the Professors of English Literature, Logic, and Moral Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment, he must enter one or more of the classes of English Literature, Logic, and Moral Philosophy, and in the course of his tenure of his Bursary must attend, besides the above classes, one or more of the higher classes in connection with the classes of Logic and Moral Philosophy. The second moiety of the third year's Bursar shall not be paid until the Bursar shall have obtained a Certificate in the Mental Philosophy Department for a Degree in Arts.

5. Four Bursaries—viz., two at £25, and two at £20, shall be open for competition to students entering on their third session of attendance, *i.e.*, students who have attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Mathematics and Natural Philosophy, or who having passed the Preliminary Examination in Humanity and Greek, have attended for one session the higher classes in those subjects. Candidates shall be examined in such subjects in Mathematics as may be fixed by the Senate. The Examiners shall be the Professors of Mathematics and Natural Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment he must enter the class of Mathematics, and prosecute the course of study required for obtaining a certificate in the Mathematical Department for a Degree in Arts. The second moiety of the third year's Bursar shall not be paid until the Bursar shall have obtained this Certificate.

In session 1894-95 four of the above £25 Bursaries will be open to competition—viz., one in Theology, one in Medicine, one in Philosophy, and one in Mathematics. The Bursary in Theology will be decided by the results in the general competition for Bursaries in Theology. The competition for the Bursary in Medicine will be held along with the examinations for the Rainy Bursary. For the Bursary in Philosophy the subjects of examination will be those prescribed for the John Ferguson Jaffrey Bursary (see p. 218), and the examination will take place along with the Autumn examinations for M.A. in English and Logic. The examination for the Bursaries in Mathematics will take place along with the pre-

liminary examinations in Mathematics for M.A., but may embrace higher papers.

*Bursars in Theology*—<sup>1</sup>Adam Nelson, M.A., 1891; Charles W. Hutcheson, M.A., 1892; Andrew S. Gilchrist, 1893; Hugh T. S. Morrison, 1893.

*Bursars in Medicine*—<sup>1</sup>Alexander MacLennan, 1891; Joshua Ferguson, M.A., 1892; William G. Liston, 1893; James Alston, 1893.

*Bursars in Arts*—<sup>1</sup>John M. Forsyth (Phil.), 1891; <sup>1</sup>William C. Henderson (Math.), 1891; Angus King (Phil.), 1892; William A. Lindsay (Math.), 1892; Hyam Goodman (Phil.), 1893; Thomas F. Kinloch (Phil.), 1893; John Miller (Math.), 1893; Adam B. Stewart (Math.), 1893.

**LUMSDEN BURSARY** (*Theology*).—This Bursary was founded in 1850, by Mr. James Lumsden, stationer, Glasgow. Value £15. It is given to a Divinity student of the first year, and may be held for four years. There is a preference to sons of members, or of deceased members of the Stationers' Company of Glasgow. The Patrons, viz., the Principal, the Professors of Divinity, Hebrew, and Church History, and the President of the Stationers' Company—have resolved that when no candidate with a preferential claim applies for the Bursary it shall be awarded in accordance with the results of the competition for Bursaries in Theology. (Vacant.)

**LUSK BURSARY** (*Arts*).—Founded in 1876, in accordance with holograph settlement executed by Mr. Robert Lusk, merchant in Greenock, who bequeathed the sum of £1,000, reduced by legacy duty to £900, for "a Bursary in connection with the Glasgow University, to be given to the most successful student attending the preparatory course of studies in said University who may intend to follow out the ministry in connection with any of the Presbyterian bodies in Scotland," "and who may, on public examination or competition, be found to be best qualified and most deserving." The competition is open to first or second year's students in Arts. Tenable for three years, but may be continued for an additional year. The next appointment will be made in 1894, and the value will be £20 per annum.

*Bursar*—<sup>1</sup>John Ruggan, 1890.

**MACARTHUR BURSARY** (*Medicine*).—Founded in 1881 by Miss Jean Macarthur, in memory of her uncle, John Macarthur, Doctor of Medicine in Glasgow. The Bursary consists of the annual proceeds of £500. The administration is vested in a Committee appointed annually by the Faculty of Physicians and Surgeons of Glasgow. The Bursary must be held by a student prosecuting the study of Medicine in the University of Glasgow. Under the rules

<sup>1</sup> Vacant through lapse of time.

laid down by the Committee, applicants must have completed two winter sessions of medical study. Preference will be given to applicants who have taken one or more First Class Certificates in the Medical Classes. The Bursary is tenable for two years.

Application to be made prior to 15th April to Mr. Alexander Duncan, Faculty Hall, 242 St. Vincent Street, Glasgow, who will furnish forms of application.

*Bursar*—John M. W. Morison, 1893.

**M'CRIE BURSARIES (*Arts*).**—These Bursaries were founded by the Rev. James M'Crie, D.D., of Dangart, Senior Minister of the U.P. Congregation of Old Meldrum, in the County of Aberdeen. They are of the annual value of £25, tenable for four years, provided the holder passes a prescribed examination at the commencement of each session and complies with the other conditions mentioned in the Deed of Foundation. The Bursary fund consists of certain lands in the parish of Colmonell and other heritable and movable property mortified for the purpose and vested in the Magistrates and Town Council of Ayr. The candidates must have been born in the parishes of Ballantrae, Colmonell, Barr, Girvan, Ayr, Old Meldrum, Tarves, Daviot or Bourtie, or in the City of Aberdeen, or in the Town of Ayr. The students must also be the sons either of mechanics, or of cottars, or of farmers not paying more than £100 of yearly rent, or of ministers not having more than £130 of yearly income, without respect to religious sect or denomination. Candidates of the names of M'Crie, Forsyth, M'Cracken, or Spark, are to have a preference if otherwise deserving. The Bursaries may be held along with other Bursaries. One of the Bursaries on this foundation will be competed for in October next, and the examination will be held in Ayr. Candidates will be examined on the following subjects:—Classics: Latin, Greek. Mathematics: Arithmetic, Algebra, up to and including simple equations, Euclid, Books I. to III. English: Composition, Geography, and History of Scotland. Candidates must send their names and addresses to A. G. Young, Esq., Town Clerk, Ayr, not later than 1st October, 1894.

*Bursars*—<sup>1</sup>David H. Crawford, 1890.

**JAMES MELVILLE M'CULLOCH BURSARY (*Arts*).**—Founded in 1885 in memory of the late Rev. James Melville M'Culloch, D.D., minister of the West Parish, Greenock. It consists of the free annual income of about £400. It is open to competition to students of the first year in the Faculty of Arts, who shall have been educated for not less than three years at any school or schools in Greenock. Tenable for four years, the Bursar attending the qualifying course for the Degree in Arts. The second moiety of the fourth year's Bursary shall not be paid until the Bursar shall have passed all the examinations required for the Degree of Master of

<sup>1</sup> Vacant through lapse of time.

Arts. In the event of a vacancy occurring otherwise than by lapse of time, the Senate may appoint a student of the same standing qualified in like manner, or may arrange a new competition.

*Bursar*—Robert D. Bell, 1893.

MACDONALD BURSARIES (*Arts, Law, or Medicine*).—Two in number, founded in 1882, in terms of the Trust Disposition and Settlement of Mr. Alexander Macdonald, M.P., who bequeathed to the University £1,000 for the purpose of assisting students in a course of purely secular education. The Bursaries are equal in value and tenable for four years in Arts, Law, or Medicine. Only miners under the age of twenty-one years, who have worked underground in any part of the United Kingdom, are eligible as candidates. The Bursaries are awarded in accordance with the results of an examination in general knowledge, particularly in writing, arithmetic, geography, grammar, and history. (One vacancy.)

*Bursar*—John Macdonald, 1892.

JOHN AND ISABELLA MACDOUGALL BURSARIES (*Arts*).—Founded in 1884, under the Trust Disposition and Deed of Settlement of Miss Isabella Macdougall, Perth. Miss Macdougall directed her Trustees to devote the residue of her means and estate to the foundation and endowment of one or more Bursaries, payable to students born in the county or city of Perth, attending the classes in the Faculty of Arts, in the Universities of Edinburgh, Glasgow, and St. Andrews. The Bursaries are of the annual value of about £33, and are tenable for a period not exceeding three years. The Trustees are the Patrons. The candidates, who may be of any religious denomination, must undergo an examination by examiners appointed by the trustees. The Bursaries are open to students who are either (1) about to enter on their first session, and who shall pass the Preliminary Examination in Arts, or (2) who have already attended the junior classes for one session. A vacancy occurring otherwise than by lapse of time may be filled up by the appointment, after examination, of a student of equal standing with the retiring Bursar. It is not competent for any person to hold any of these Bursaries along with any other Bursary or appointment yielding to him an annual income of fifty pounds or upwards. The Trustees are the following ministers in Perth, viz.:—The Rev. Wm. G. H. Carmichael, East Church Parish; the Rev. Archd. Fleming, St. Paul's Church Parish; the Rev. Robert Milne, West Church Parish; the Rev. William Main, Middle Church Parish; and their successors in office for the time being, and Mr. Wm. Cochrane Young, solicitor in Perth. Candidates are requested to send in their names and addresses to Mr. Young, 9 St. John Street, Perth, on or before 1st September. (One vacancy.)

*Bursars*—Hugh M'Gregor, 1892; William S. Mackenzie, 1893.

**MALCOLM M'EWEN BURSARY** (*Arts or Science*).—Mr. William M'Ewen, tobacco manufacturer, Glasgow, who died on 16th December, 1878, by his Trust Disposition and Settlement, dated 28th November, 1878, directed his trustees, Mr. James Boyd, writer, Glasgow, and others, to devote a sum of £500 to the foundation of a Bursary in the University of Glasgow, to be called the "Malcolm M'Ewen Bursary," in memory of his brother, Mr. Malcolm M'Ewen, who died on 16th January, 1878. The Bursary was founded in 1884. After consultation with the Senate, the Trustees resolved that the regulations for the Bursary should be as follows:—The Bursary is open to competition at the annual Bursary Examination to all students entering on the first session of attendance at the University, is awarded by the Senate in accordance with the results of that examination, and is tenable for four years. The Bursar on his appointment must elect to follow either the course of study qualifying for the Degree of M.A., or the course of study qualifying for the Degree of B.Sc., and must attend at least two classes each winter session. The Bursary is payable by equal moieties on the second day of February, and at the close of the winter session, but the second moiety of the fourth year's Bursary shall not be paid until the Bursar shall have passed all the examinations for the Degree appropriate to the course of study chosen by him at the beginning of his tenure of the Bursary. A vacancy occurring otherwise than by lapse of time may, in the discretion of the Trustees, either be filled up at the first term thereafter, or not till the usual term at which the competition for the Bursary would, in ordinary course, have fallen due, and, in the latter event, accumulations from this source are to be added to the capital fund.

*Bursar*—James M. Templeman, 1891.

**JAMES MACFARLANE BURSARY** (*Theology*).—Miss Helen Macfarlane, who died on 12th March, 1886, by a Codicil dated 15th August, 1882, to her Trust Disposition and Settlement, directed her Trustees to hand over to the Senate the Portrait of her late brother, Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and the sum of £1,000 free of legacy duty for the foundation of a Bursary in the Faculty of Theology, in memory of her brother, the Rev. Dr. James Macfarlane, minister of Duddingston. Preference to the name Macfarlane. The competition is open to Divinity students of the first year, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. The Bursary is tenable for three years, but in the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

*Bursar*—<sup>1</sup> Peter Macnab, 1891.

<sup>1</sup> Vacant through lapse of time.



JOHN MACFARLANE BURSARY (*Medicine*).—Founded in 1874 by the brothers and sister of the late Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and to his memory. Patrons—The Medical Faculty. Value, about £40. Tenable for three years. The competition is open to students who have attended the first session of their professional study in the University of Glasgow, and who have passed in all the subjects of the examination in general education for M.B. The Examination will be held at the close of the first session of professional study. The subjects of Examination to be prescribed by the Patrons; and the success of the candidates in the examination in General Education will form an essential element of the decision. Any surplus which may accumulate from vacancies or otherwise, to be applied to establish a "Macfarlane Prize" in the Class of Practice of Medicine. The subjects of examination for this Bursary are Elementary Anatomy, Elementary Chemistry, and Botany.

*Bursar*—George Clark, 1893.

ROBERT MACFARLANE BURSARIES.—By a Mutual Trust Disposition and Settlement, of date 7th January, 1888, Miss Mary Ann and Miss Margaret Macfarlane directed their Trustees to make over to the Senate of the University of Glasgow a sum of £3,000 for the foundation of Bursaries in memory of their brother, Robert Macfarlane, Writer, Paisley, out of the estate bequeathed by him to them. The Bursaries are to be given to deserving students at the University of Glasgow looking forward to being lawyers, specially including students in the Law Classes, preference being given to young men connected with Paisley.

MACGROUTHER BURSARIES (*Arts*).—Two in number, founded in 1872, the one by Mrs. Sophia Susan MacGrouther, widow of Mr. James MacGrouther of Leigham Court Road, Streatham, Surrey, who mortified in favour of certain trustees the sum of £500; the other by the Misses Mary and Jane MacGrouther, residing in Glasgow, his sisters, who also mortified in favour of the same trustees the sum of £500, for the purposes of the foundation, and in memory of, and in fulfilment of the intentions of, the said James MacGrouther. The Senate are the Patrons. The Bursaries are awarded by open competition among students entering the Faculty of Arts for the first time, and are tenable for four years; subject in each case to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A.

*Bursars*—James A. Reid, £20, 1891; Allan Martin, £15, 1892 (1891).

MACKINTOSH MENTAL SCIENCE BURSARY (*Medicine*).—Founded in 1889 by Dr. Donald Mackintosh, of London, in memory of his brother, Dr. Alexander Mackintosh, for many years superintendent of the Royal Lunatic Asylum, Gartnavel. Value, about £30. Ten-



able for one year. The competition is open to matriculated students of medicine who have attended the Lectures on Insanity in the University, and will be awarded in accordance with the results of an examination conducted in June by the Professor of Practice of Medicine and the Lecturer on Insanity acting conjointly. The holder of the Bursary shall, while holding it, devote special attention to the practical study of Insanity to the satisfaction of the Faculty of Medicine.

*Bursar*—Margaret C. Dewar, 1893.

**M'KECHNIE BURSARIES** (*Any Faculty*).—Two in number, founded by the Disposition and Trust Settlement of the late Thos. M'Kechnie, merchant in Girvan, who bequeathed for that purpose the sum of £2,000 to the Minister of the Established Church in Girvan, the Magistrates of Girvan, and others, and appointed them patrons of the Bursaries. The Patrons, in nominating and presenting students to the Bursaries, are instructed to prefer, in the first place, such as are of the founder's kindred; secondly, such as are of the name of M'Kechnie; and thirdly, such as were born in the parish of Girvan, provided that such students are properly qualified by their previous education for entering the University of Glasgow. Failing candidates qualified as above, the Bursaries are to be awarded to those who shall be found best qualified and deserving. The Bursaries are tenable for four years. When a vacancy occurs application should be made to Messrs. W. and D. Andrews, solicitors, Girvan, not later than 31st August.

*Bursars*—John M'Kechnie, (Div.), 1891; Robert Nelson, (Med.), 1891.

**MAITLAND CLUB BURSARY.**—In 1888 Dr. W. H. Hill and Mr. J. Wyllie Guild, the then surviving members of Council of the Maitland Club, disposed of the remainder of the stock of the Maitland Club publications, and in pursuance of resolutions passed at meetings of the Council held on 3rd and 17th August, 1870, handed over the proceeds (£140) to the Senate for Bursary purposes. The free income is to be annually bestowed without any competitive examination on such student as the Senate may consider deserving. No appointment will be made until the free annual income amounts to £5.

**MARSHALL BURSARIES** (*One in Theology and One in Medicine*).—Mrs. Barbara Lauder or Marshall, relict of Alexander Marshall, wholesale stationer, Bell Street, Glasgow, by her Will, dated 8th December, 1874, bequeathed to the Senatus of Glasgow University the sum of £1,000, under deduction of legacy duty, to found two Bursaries of equal value, one in Divinity and the other in Medicine. Tenable for four years. Preference to the name of Marshall, but provided "that the Principal and the Professors shall nominate and appoint such students only to the said Bursaries as they shall find, on such examination as they may appoint, to be properly qualified

for entering upon the study of Divinity and Medicine at the said University." Present value, £17 per annum to each Bursar.

*Bursar in Theology*—Allan M. Nelson, 1893.

*Bursar in Medicine*—James M'Queen, M.A., 1892.

**MARSHALL TRUST BURSARIES (*Arts*).**—Under scheme 198, section 29, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 17th March, 1888, the Governors of the Marshall Trust are instructed to apply (1) a sum not exceeding £300 per annum in providing University Bursaries. These Bursaries are awarded by competitive examination among pupils who have held free scholarships or school bursaries under the scheme, and pupils who are resident and attending public or State-aided schools in Lanarkshire or Stirlingshire, whose parents or guardians are of the class specified in section 25 of the scheme. The Governors may apply (2) a further sum of £300 per annum in providing similar Bursaries to be awarded solely to pupils who have held free scholarships under the scheme, who shall have competed for but failed to obtain any of the first mentioned Bursaries, but on condition that such free scholars shall pass the examination prescribed by the Governors. Each Bursary is £30 per annum, and is tenable for not more than five years. Forms of application may be obtained from the Secretary of the Trust—Mr. William Mitchell, 134 Wellington Street, Glasgow—and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for students of the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary in the general competition. Under (1) there are two vacancies, and under (2) there are also two vacancies.

*Bursars*—Alexander Taylor, 1890; James A. Higgins, 1890; Thomas M. Fletcher, 1891; John Reid, 1891; Adam B. Stewart, 1892; David Preston, 1892; James B. Wilson, 1892; John Reid, 1892; Alexander Fraser, 1893; John A. C. Mackellar, 1893; William Scott, 1893; Leonard Stuart, 1893.

**MENZIES BURSARIES (*Arts*).**—The late Mr. James Menzies, of Glasgow, by his Will, dated 3rd November, 1837, left a sum of money to establish four Bursaries at either of the Universities of Edinburgh, Glasgow, or St. Andrews, tenable for four years, one to be given each year. The value of each Bursary is £45 per annum, but varies at the discretion of the Patrons. The Patrons are Sir Robert Menzies, Bart. of Menzies, and the Parish ministers of Dull, Weem, and Fortingall. In the first place, the kindred of the Testator; secondly, persons of the name of Menzies; thirdly, those born on the Menzies estates, will be preferred—provided always that they

shall be found properly qualified by previous education ; and failing these, the Patrons can present such as shall be found best qualified after due examination. The following are the subjects of examination :—*English*, Reading and Writing from Dictation ; *Arithmetic*, as far as Decimal Fractions ; *Euclid*, first three books ; *Latin*, Cæsar de Bello Gallico, first four books, and to translate a piece from English into Latin ; *Greek*, Xenophon's Anabasis, first three books. Bursars to attend in some one of the above Universities the classes in their regular order for the M.A. Degree. Candidates are requested to send their names to Mr. J. B. Feilding, Camserney Cottage, Aberfeldy, on or before 20th September. (One vacancy.)

*Bursars*—<sup>1</sup> Hugh Menzies, 1890 ; Joseph H. Menzies, 1891 ; Archibald Menzies, 1892.

**MERCHANTS' HOUSE BURSARIES** (*One in Arts, One in Law, and Two in Medicine*).—Founded in 1879, by the Merchants' House of Glasgow. The Bursaries are of the annual value of £25 each, and are four in number—viz., two in Medicine, one in Arts, including Engineering and Mechanics, and one in Law, tenable by students attending the requisite classes in the above Faculties, with a preference to the sons of matriculated members of the Merchants' House, and such others as the Lord Dean and Directors may deem deserving. 1. The Bursaries in Medicine are tenable for four years. Candidates must be entering on their first winter session of attendance on the ordinary curriculum for Medical Students. 2. The Bursary in Arts, including Engineering and Mechanics, is tenable for four years. Candidates must be entering on their first session of study, and must attend each session two at least of the classes in the Arts curriculum, including, at the option of the candidate, the class of Civil Engineering and Mechanics. 3. The Bursary in Law is tenable for three years. Candidates must be entering on their first session of attendance on the classes in the Faculty of Law, and must give regular attendance for the three years on classes in that Faculty. The subjects of examinations for the above Bursaries will be those prescribed for the General Bursary Competition, special importance being given in the examination for the Arts Bursary to the subject of Mathematics. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st September, 1894.

*Bursar in Arts*—<sup>1</sup>David G. Webster, 1890.

*Bursar in Law*—Alfred J. Fleming, 1893.

*Bursars in Medicine*—Henry A. Watson, 1891 ; Walter S. Findlay, 1892.

**METCALFE BURSARIES** (*Science*).—Founded by the late Miss Sarah Metcalfe, Glasgow, who, by her Deed of Settlement and Codicils,

<sup>1</sup> Vacant through lapse of time.

dated respectively 8th August, 30th September, and 7th October, 1853, bequeathed, subject to the liferent of her brother, Mr. William Metcalfe, certain properties in Glasgow, "for encouraging poor students in prosecuting the studies of Mathematics, Practical Astronomy, Chemistry, and Civil Engineering." Mr. Metcalfe died on 25th January, 1869, and by resolution of date 14th April, 1870, the Senate instituted, besides a Metcalfe Fellowship of £100 annual value (for which see Index), at least two Metcalfe Bursaries or Scholarships, each of the annual value of £25, and tenable for two years, subject to the condition that the scholar attend the four classes of Civil Engineering, Senior Mathematics, Practical Astronomy and Chemistry; two at least of these classes to be taken each year. The scholars to be appointed by examination in Pure Mathematics, including the elements of Plane Trigonometry, of Mechanics, and of Theoretical Astronomy, from among matriculated students entering the senior class of Mathematics, or the class of Chemistry.

*Bursars*—<sup>1</sup>James S. Dunlop, 1892; <sup>1</sup>Gardiner H. Mackillop, 1892.

MITCHELL (See Lochhead and Mitchell, p. 221).

MONTEITH BURSARIES (*Arts*).—Founded in 1869 by Mr. James Monteith, of 38 Duke Street, St. James's, London. Three in number, each of the annual value of about £14, and tenable for three years. They are open for competition to all matriculated students of the Faculty of Arts, being natives of Scotland, and sons of Scottish parents, and may be held along with another Bursary. The examination to be in French and German in alternate years. Occasionally an extra Bursary will be given to the second-best candidate, of the same value as the others, but tenable only for one year. At the commencement of session 1894-95 a regular three years' Bursary will be competed for, the examination being in German.

*Bursars*—<sup>1</sup>William A. Lindsay (French), 1891; Archibald H. Charteris (German), 1892; John R. Tannahill (French), 1893.

JOHN MONTEITH BURSARIES (*Medicine*).—Founded in 1884 by Mrs. Helen Monteith, Greenbank, Dowanhill Gardens, Glasgow, in memory of her husband, the late John Monteith. Mrs. Monteith assigned the sum of £1,000 to Dr. John Gray M<sup>c</sup>Kendrick, Professor of the Institutes of Medicine, Dr. James Duncan M<sup>c</sup>Laren, Fellow of the Faculty of Physicians and Surgeons in Glasgow, James Graham, LL.D., writer, Glasgow, and Robert Monteith, her adopted son, as trustees, in the first instance, for the administration of the fund. The annual income after payment of the expenses of administration is to be awarded as two Bursaries to students who have attended the first and second sessions of their professional studies in the University of Glasgow with a view to Graduation in Medicine in that University, and who have passed the whole of the Examination

<sup>1</sup> Vacant through lapse of time.

in General Education for the Degree of Bachelor of Medicine, or who possess such a Degree in Arts as may be recognized by the University as exempting from such examination. The Bursaries are tenable for two years. One Bursary is awarded annually in the month of November, and is given to the candidate who gains the highest number of marks in the subjects of Anatomy and Physiology at the Professional Examinations in these subjects held during the previous year (*i.e.*, the April and October preceding said month of November). The founder has directed that it be represented to the holders of the Bursaries that they should feel themselves in honour bound after graduation to render professional assistance to the poor as much as may lie in their power.

*Bursars*.—<sup>1</sup>James C. Robertson, M.A., 1892; William H. Lang, 1893.

MUIR BURSARIES (*Two in Arts or Science, Two in Science, and One in Theology*).—Founded in 1880, in terms of the Trust Disposition and Settlement and Codicil thereto of the late Mr. Matthew A. Muir, merchant in Glasgow, who bequeathed to the Senatus Academicus of Glasgow University, free of legacy duty, the sum of £1,000 for providing a Bursary in connection with the Chair of Divinity, to be awarded to a student of Divinity during the last three years of his curriculum; a sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Mathematics, to be awarded to advanced students in Mathematics, the period of tenure to be fixed by the Senate; and a further sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Civil Engineering and Mechanics, to be awarded to advanced students of Engineering and Mechanics, the period of tenure to be fixed by the Senate. Any of the Muir Bursaries in Mathematics and Civil Engineering may be held along with another Bursary.

The following rules and regulations have, in accordance with the provisions of the Deed, been sanctioned by Mr. Muir's trustees, and are to be observed in all time coming :—

1. *Muir Bursary in Divinity*.—Candidates must be entering on their first session in Theology in the University, and the appointment to the Bursary shall be determined by the result of the annual competitive examination for Bursaries in Theology. The competition shall be open to candidates holding a Degree in Arts in any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. The Bursary shall be tenable for three years, but the second moiety of the third year's Bursary shall not be paid until the Bursar shall have passed the examinations for the Degree of Bachelor of Divinity.

2. *Muir Bursaries in Mathematics*.—Two in number, of which the Junior Bursary shall be tenable for two years, and the Senior

<sup>1</sup> Vacant through lapse of time.



Bursary for one year, the former being of half the annual value of the latter. The appointment shall be determined by the proficiency shown by the candidates in the earlier part of their Mathematical course, and the successful candidates shall prosecute the study of the Higher Mathematics during their tenure of the Bursaries. No candidate shall be allowed to hold both Bursaries at the same time. Should the Junior Bursary be resigned by the Bursar at the end of his first year of tenure, the Senate may make an appointment for the remainder of the period.

3. *Muir Bursaries in Civil Engineering and Mechanics.*—Two in number, and of equal value. The appointments shall be determined by the proficiency shown by the candidates in the earlier part of their Engineering course. The period of tenure for each Bursary shall be the session of attendance on the Senior Class of Civil Engineering and Mechanics (Class IV.). Should a vacancy occur by reason of non-attendance of a selected candidate, the Senate may make an appointment for the remainder of the period. No candidate shall be allowed to hold both Bursaries.

4. The Senate reserve the right to withhold the Bursary in any case in which a satisfactory standard has not been attained by any of the competitors.

5. Arrangements for carrying out these rules and regulations shall from time to time be made by the Senate, and notice thereof shall be published in the University Calendar.

*Arrangements for Session 1894-95.*—*Muir Bursaries in Mathematics.*—The appointment to the Junior Bursary, tenable during sessions 1895-96, 1896-97, shall be determined by the results of the written examinations passed in the course of the session 1894-95 by the public students of the Second Class of Mathematics. The successful candidate shall, during session 1895-96, attend the Intermediate Honours Class, and during session 1896-97 the Advanced Honours Class of Mathematics. The appointment to the Senior Bursary, tenable during session 1895-96, shall be determined by the results of the written examinations passed in the course of the session 1894-95 by the public students of the Intermediate Honours Class. The successful candidate shall, during session 1895-96, attend the Advanced Honours Mathematical Class.

*Muir Bursaries in Civil Engineering and Mechanics.*—Candidates for the Bursaries tenable during session 1895-96 must be (a) students attending during session 1894-95 Engineering Class II., who are also attending or have in a previous session attended the Middle or the Senior Class of Engineering Drawing and Calculations, or (b) students attending during session 1894-95 the Middle or the Senior Class of Engineering Drawing and Calculations, who have in a previous session attended the Engineering Class II. or Class III. The appointment shall be made by consideration of merit shown during attendance on, and by examination in the subjects of those classes,



together with the following subjects in preparation for the Senior Class of Civil Engineering and Mechanics (Class IV.), viz.:—The elements of Plane Trigonometry; the elements of Co-ordinate Geometry; Differential and Integral Calculus in cases of powers of a variable when the index of the power is a whole numeric, and in cases of trigonometrical functions; Principles of curvature; Relation between Neperian logarithms, common logarithms, and logarithms in general; the use of logarithms. The successful candidates shall, during session 1895-96, attend the Senior Class of Civil Engineering and Mechanics (Class IV.).

*Bursars in Mathematics.*—Junior Bursar for sessions 1894-95 and 1895-96, William Fulton, 1894; Senior Bursar for session 1894-95, Adam B. Stewart, 1894.

*Bursar in Theology.*—<sup>1</sup>David S. Merrow, M.A., 1891.

WILLIAM MUIR DIVINITY BURSARIES (*Theology*).—Established in 1886 by the Governors of the Glasgow General Educational Endowments Board, under Section 35 of their Scheme. The Bursaries are two in number, each of £25 annual value. Candidates must have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University, and must lodge applications with Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, on or before the 26th day of October. The Bursaries are awarded in accordance with the results of the competition for Bursaries in Theology, and are tenable for two years.

*Bursars*—<sup>1</sup>John Thomson, 1892; Robert Pryde, 1893.

NOTMAN BURSARY (*Theology*).—By deed of Settlement, dated 15th August, 1876, Mrs. Margaret Adam Notman or Napier, of Hillhead, Glasgow, widow of Mr. William Napier, directed her executors to pay over to the Principal and Professors of the Glasgow College, the sum of £500 sterling for the purpose of founding a Bursary in the College, to be called the Notman Bursary, in memory of her father and brother. The Bursar to be a student of Divinity, who shall appear in public examination to be best qualified and deserving. Present value, £17 per annum.

*Bursar*—William Neil, 1893.

ORR-EWING DUMBARTONSHIRE BURSARIES (*Arts*).—Sir Archibald Orr-Ewing, Bart. of Ballikinrain, M.P., by Bond and Foundation dated 19th September, 1877, bound and obliged himself, his heirs, etc., to pay to the University of Glasgow, and to the Senatus Academicus thereof, as trustees, the sum of £1,600 sterling in seven annual instalments, payable at Martimmas in each of the years following, viz.:—In 1878, £100; 1879, £200; 1880, £300; 1881, £400; 1882, £300; 1883, £200; 1884, £100—to be held and applied for pro-

<sup>1</sup> Vacant through lapse of time.

viding four Bursaries of £25 per annum each, tenable for four years, to be competed for in each of the years 1878, 1879, 1880, and 1881. By a letter to the Senate dated 5th February, 1883, he intimated his intention to give yearly four Bursaries of £25 each during his lifetime. Each of the said Bursaries was, as a rule, to be tenable for four years, but on condition that each Bursar should, during or prior to his fourth session of attendance at the said University, pass two out of the three departmental examinations for the said Degree of Master of Arts, wherein if he should fail he should forfeit all right to the said fourth year's payment of £25. In the event of a Bursary becoming vacant otherwise than by lapse of time, the Senatus were to apply the funds thereby left at their disposal for the benefit of Divinity students belonging to Dumbartonshire. Sir Archibald Orr-Ewing died on 27th November, 1893.

*Bursars*—William W. Loggie, 1891; William W. Lang, 1891; Andrew M. Kelly, 1892; David Longwill, 1892; Alexander Wilson, 1892; James Wilson, 1892; Alexander Stephen, 1893; Ivy M'Kenzie, 1893; John Gray, 1893; Ernest H. Cramb, 1893; James F. Craig, 1893.

**JAMES PATERSON BURSARY (*Arts*).**—Founded in 1885 in commemoration of the completion, in 1879, of the fiftieth year of the existence of Adelaide Place Baptist Church, Glasgow, and of the Pastorate thereof of Dr. James Paterson during the same period. The sum subscribed for the purpose, amounting with interest to £619, was assigned and conveyed to the Senate in trust to be applied in all time coming to provide a Bursary in the Faculty of Arts to be called the James Paterson Bursary. The Bursary is tenable for four years, and is open to competition to any student of the first year in Arts who is a member of a Baptist Church, and who is entering upon his studies with a view to the ministry in the Baptist denomination. The Bursar during his tenure of the Bursary must be a member of Adelaide Place Baptist Church or of some other Baptist Church in Glasgow or neighbourhood. The Bursar must graduate in Arts, and before payment of the second moiety of the last year's Bursary must produce evidence that he has taken the Degree, or that he has obtained all the certificates necessary for graduation. On the Bursary falling vacant otherwise than by lapse of time, the Senate may appoint for the remainder of the term, or for the full period after competition. Before payment of the second moiety in each year the Bursar must produce a certificate of fitness for the ministry from a Committee of Adelaide Place Baptist Church, from the Baptist Union of Scotland, or some recognized Educational Institution of the Baptist Body.

*Bursar*—<sup>1</sup>John D. Robertson, 1890.

<sup>1</sup> Vacant through lapse of time.

**JAMES ALEXANDER PATERSON BURSARIES** (*Arts and Medicine*).—Founded in 1892, under the Trust Disposition and Settlement of James Alexander Paterson (for many years a member of Shamrock Street United Presbyterian Church), who died at Glasgow on 31st January, 1889. The Bursaries in Arts are six in number, three being of the annual value of £40 and three of £20 each, and are tenable for three years. They are open to competition to students entering upon the second year of their attendance at the University, who purpose studying for the ministry in connection with the United Presbyterian Church, and who intend to qualify for and take, in the University of Glasgow, the degree of M.A. Each candidate before the competition must lodge with the Clerk of Senate, (1) a written declaration of his intention to comply with and observe these conditions, and (2) a certificate from the Chairman or Clerk of the Theological Committee of the United Presbyterian Church, bearing that the Candidate is recognized by that Church as an accepted student pursuing his studies with a view to the ministry therein. In November, 1894, two Bursaries of £40 and £20 respectively will be offered for competition. The examination is in Hebrew (Genesis, chap. xxiii., xxiv.) and Greek (Euripides, *Alceſtis*, and Gospel according to Luke). The Bursaries in Medicine are eight in number, four being of the annual value of £30 and four of £15 each, and are tenable for four years. They are open to competition to students entering upon the second year of their medical curriculum at the University of Glasgow, who intend to qualify for and take, in the University of Glasgow, the degree of M.B. Each candidate must before the competition deliver to the Clerk of Senate a written declaration of such intention. The subjects of examination are Mathematics and Natural Philosophy. Two Bursaries of £30 and £15 respectively will be offered to competition in November, 1894.

It shall not be competent for the holders of these Bursaries, whether in Arts or in Medicine, to hold any other Bursary or Scholarship in this University.

*Bursars in Medicine*.—Samuel D. Cowan (£40), 1892; John M. Manford (£30), 1892; Walter S. Findlay (£30), 1893; John Crow (£15), 1893; William Martin (£15), 1893.

*Bursars in Arts*.—John W. Henderson (£40), 1893; William Macnaughton (£30), 1893.

**PATRICK BURSARIES** (*Arts*).—Two in number, founded in 1860 by Mr. William Patrick, of Roughwood, W.S., the one consisting of the free annual proceeds of a sum of £2,000 of consolidated stock of the Glasgow and South-Western Railway, the other of the free annual proceeds of £1,000 of the same stock. They are tenable for two years, but may be continued for other two. Candidates must have gone through a course of education at some one of the Public

Schools in the County of Renfrew, where a regular course of Classical Study is pursued, and must be in circumstances to render it desirable that they should have assistance in prosecuting their studies at the University. The Rector or Head Teacher of such Public School to grant a certificate to any number, not exceeding four of his best scholars, who shall be entitled to present themselves to the Principal and Professors as candidates for the Bursaries. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office).

The examination is in Latin, Greek, Elementary Mathematics, and English.

*Bursars*—<sup>1</sup>John L. Morison (£40), 1892; James Adam (£80), 1893.

GLASGOW PERTHSHIRE SOCIETY'S BURSARY (*Arts*).—Founded by the Glasgow Perthshire Society in 1873. Value, £25, and tenable for three years. Open to competition to natives and sons of natives of the county of Perth, and also to sons of persons who are *bonâ fide* residents in that county, and have resided in it for not less than three years at the time of the competition. Candidates must be entering on their first year of attendance as students in the University of Glasgow, and the holder of the Bursary will be required to complete attendance on at least two of the classes in the curriculum of Arts in each session. Names of candidates to be sent to Mr. George Gray, writer, County Buildings, Glasgow, Secretary of the Society, not later than the twenty-fifth day of August preceding the competition.

*Bursar*—<sup>1</sup>James Smith, 1891.

POLLOCK BURSARIES (*Arts*).—Founded in 1878, in terms of the Trust Disposition and Settlement of the Rev. Alex. Pollock, senior minister of the Free South Church, Paisley, who bequeathed £3,000, free of legacy duty, for that purpose. The Bursaries are designed to assist young men entering the University of Glasgow, whose circumstances are such as to render it desirable that they should have assistance in prosecuting their studies. The patrons are the Principal and Professors in the Faculty of Arts. Each candidate must lodge along with his application a letter from the Rector, Headmaster, or Classical Teacher of one of the Public Schools or Public Academies within the parliamentary boundaries of the burgh of Paisley, where a regular course of Classical study is pursued, certifying that he has completed his course of education at such school or academy. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office). Should no such qualified candidates present themselves, or should the otherwise qualified candidates fail to reach a satisfactory standard in the Bursary Examination, the Bursary or Bursaries vacant for the time being shall

<sup>1</sup> Vacant through lapse of time.

be open to all the candidates in the ordinary Bursary Competition. The Bursaries are three in number, and are tenable for three years, during which period the Bursars must be students in the Faculty of Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have obtained at least two of the Departmental Certificates for the Degree of Master of Arts.

*Bursars*—<sup>1</sup>James Hair, 1891; Adam Hamilton, 1892; George Dock, 1893.

**RAINY BURSARIES (*Medicine*).**—In 1872, Dr. Harry Rainy, Emeritus Professor of Medical Jurisprudence in this University, made over to the Senate the sum of £1,000 for the institution of two Bursaries in the Medical Faculty, and a further sum of £500 to be invested as a supplementary or augmentation fund. The interest of the Bursary Fund is to be divided annually between the two Bursars; and the interest of the supplementary fund is to be employed towards defraying the expenses of administration, and bringing up, when necessary, the annual salaries of the Bursars to £20 each, and increasing the supplementary fund. Should this fund accumulate to £1,000, one half of it is then to be added to the Bursary fund, the interest of which shall be divided as before between the two Bursars. If by this process of augmentation, which is to be repeated as often as the supplementary fund amounts to £1,000, the Bursary fund shall at length yield £60 per annum to each Bursar, the Senate may continue the same process, or constitute additional Bursaries on the principle explained above, the original Bursaries remaining of the value to which they have been raised by augmentation. The augmentation fund is not at any time to be reduced below £500.

One Bursar shall be elected annually after competitive examination on the subjects of Anatomy, Chemistry, Botany, Physiology, and Zoology. The competition is to be open to all students who have completed two years of the regular Medical curriculum at the University of Glasgow, and who are about to commence their third winter session; and the examination is to take place in the month of October.

The successful candidate may hold his Bursary for two years, namely, during his third and fourth years of study in the University of Glasgow. A vacancy occasioned by death, irregular attendance, or misconduct, is not to be filled up till the usual term at which the competition for that Bursary would have fallen due, and accumulations from this source are to be added to the supplementary fund.

In 1894 the competition for one of these Bursaries will be held on 8th and 9th October. Candidates are required to give in their names (with Certificates) to the Assistant Clerk (Matriculation Office), on or before the 20th September.

*Bursar*—William Scobie, B.D., 1893.

<sup>1</sup> Vacant through lapse of time.



**RAMSAY WALKER BURSARIES** (*Arts*).—Two in number, founded in 1879, under the Trust Disposition and Settlement of Miss Ramsay Walker, Crosshill, who bequeathed £700, reduced by legacy duty to £630, for educating two students with a view to the ministry of the Established Church of Scotland. Preference to kindred of the founder, whom failing, to students of the name of Walker, whom failing, to natives of Glasgow, whom failing, the Bursaries will be thrown open to public competition. Candidates must be qualified by their previous education for entering the University. Tenable for four years. (Both vacant.)

**ROSS BURSARY** (*Arts*).—This Bursary was founded in 1659 by Captain Wm. Ross, of Rosseyle. It is tenable for four years, and the appointment is vested in the Earl of Glasgow. Value, £4 3s. 4d. per annum.

*Bursar*—<sup>1</sup>George S. McKinnon, 1890.

**JOHN ROSS, JUNIOR, BURSARY** (*Theology*).—Founded in 1880 by Mrs. Ross, widow of Mr. John Ross, junior, merchant in Glasgow, in memory of her husband. Patrons—The Senate of the University. The Bursary Fund consists of the capital sum of £1,000, set aside by Mrs. Ross for that purpose. The Bursary is tenable for three years by a student of Divinity in the regular course of study for the degree of Bachelor of Divinity with a view of becoming a clergyman of the Established Church of Scotland. Candidates must be entering on the first session of their study in Theology in the University, and the award shall be determined by the result of the annual competitive examination for Bursaries in Theology. In cases of equality in the competition there is a preference to the student who may be thought to stand most in need of help to carry on his theological studies, or to one who is a native of Ayrshire. The second moiety of the third year's Bursary shall not be paid to any Bursar unless and until he shall have passed all the examinations required for the degree of B.D. In the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

*Bursar*—Andrew M. Barr, 1893.

**SANDERS BURSARY**.—(See Boyd and Sanders Bursary, p. 200.)

**SCOTT BURSARIES** (*Arts*).—The centenary of the birth of Sir Walter Scott was celebrated in Glasgow in 1871, and in conformity with a suggestion made by Lord Stanley (Earl of Derby), then Lord Rector of the University, the committee who had charge of the arrangements resolved to raise by public subscription a fund for the benefit of distinguished students, and to associate it with Scott's name. The amount subscribed was £3500, and accordingly two Bursaries, along with the Scott Scholarship, were founded in

<sup>1</sup> Vacant through lapse of time.



1874. The fund is administered by trustees, two of whom are elected by the Senatus, two by the Merchants' House, one by the Faculty of Physicians and Surgeons, one by the Faculty of Procurators, and one being an Assessor of the Council in the University Court. The Bursaries are now three in number, each of the annual value of £25, and tenable for four years. They are open to free competition, under the same regulations as the competition Bursaries in the University.

*Bursars*—<sup>1</sup>Alfred J. Fleming, 1890; Archibald C. McGilchrist, 1891; Percy Hepburn, 1892.

**SHEARER BURSARIES** (*Any Faculty*).—Founded in the year 1887, by Archibald Shearer of Boag, who resided in Beith. By Deed of Mortification executed by Mr. Shearer, dated 29th April, 1887, he conveyed his lands of Boag, in the parish of Kilbirnie, to trustees for the foundation and endowment of three Bursaries for the advancement of the higher education of the young men of his native parish of Dalry, in the county of Ayr. The Deed provides that the Bursaries shall be open to applicants between the ages of fourteen and twenty-four, who are the sons of parents or of a surviving parent *bonâ fide* resident for a period of not less than two years immediately preceding the date of application in the parish of Dalry, or to applicants who, for a period of not less than the last two years of their school curriculum, have received their education in the schools within the said parish, to enable the Bursars to pursue their education as students at the University in one or other of the Faculties. Students who have enjoyed a Bursary during their Arts course are eligible for a second Bursary in another Faculty. Applicants to undergo such examination as the trustees may from time to time appoint. Each Bursary to be one-third of free income from the lands of Boag, but not exceeding the annual sum of £30, and to be tenable for three years. Further information will be afforded by the Agents of the Trustees, Messrs. J. & J. McCosh, writers, Dalry.

*Bursar*—William Maclure, 1893.

**SHIPWRIGHTS' COMPANY BURSARY.**—In 1893 the Shipwrights' Company, London, intimated their intention to give a Bursary of the annual value of £25 to be competed for in the month of October by persons who intend to become students of Naval Architecture in the session then beginning. A preference is given to a candidate whose circumstances make pecuniary assistance of special value in the prosecution of his studies, and who comes to the University after serving in a shipyard. The subjects of examination are those prescribed for the Preliminary Examination in Science.

*Bursar*—Frederick W. Baker, 1893.

<sup>1</sup> Vacant through lapse of time.

**SMITH BURSARIES** (*Any Faculty*).—Two in number, founded in 1849 by Dr. John Smith, of Crutherland; not restricted to any particular description of students. Patrons—The Directors of the Incorporated Company of Stationers. Sons of members of the Company preferred, then sons of persons connected with any of the trades included in their charter, whom failing, such other students as may be approved of by the patrons. Value, £9 per annum each. Tenable for one or more years at the option of the patrons. Applications to be made to Mr. R. Brodie, 77 St. Vincent Street, Glasgow.

*Bursars*—James F. Pollock, 1892; John R. Aitken, 1893.

**STEVENSON OF DALRY BURSARIES** (*Arts*).—The Rev. Robert Stevenson, D.D., minister of the Parish of Dalry, Ayrshire, who died on 11th September, 1890, by his Trust Disposition and Settlement, dated 28th July, 1890, directed his Trustees to pay over to the University Court the sum of £2,000, free of legacy duty, for the foundation of two Bursaries in Arts. They are open for competition to students entering on the first or second session of attendance in the Faculty of Arts, who are prosecuting their studies with a view to the ministry of the Church of Scotland, with a preference in the first place to natives of the parish of Dalry in Ayrshire, and in the second place to natives of the parishes of Bannockburn or St. Ninians in Stirlingshire. The Bursaries, which are of equal value, are tenable for four years.

*Bursars*—David Morrison, 1891; William J. S. Miller, 1892.

**STEWART BURSARIES** (*Arts*).—These Bursaries, three in number, founded in 1809 by the Rev. James Stewart, are in the gift of the Senate. They commence with the Humanity or the Greek Class, and may be held during the Gown Course. Value, £15 per annum each. The names Stewart and Simpson are preferred. In case of a vacancy, a student of the same standing is appointed.

*Bursars*—<sup>1</sup> Robert Simpson, 1891 (1890); John Stewart, 1891; John Stewart, 1892.

**STRUTHERS BURSARY** (*Theology*).—In 1624, the Rev. William Struthers founded two Bursaries for students in Divinity. Value, £6 13s. 4d. per annum each. By ordinance of the Universities Commissioners, of date 17th May, 1862, these Bursaries were conjoined into one, tenable for three years; the holder to be M.A. and a student of Divinity. All other restrictions were abolished. The right of nomination belongs to the Magistrates and Town Council of Glasgow.

*Bursar*—<sup>1</sup> Bryce M<sup>c</sup>Farlane, M.A., 1891.

**TAYLOR BURSARIES** (*Any Faculty*).—Two in number, founded by Mr. James Taylor, writer in Glasgow, who by Trust Disposition and Settlement, of date 30th June, 1857, bequeathed to the University

<sup>1</sup> Vacant through lapse of time.

the sum of £800 for Bursaries. After Mr. Taylor's death, the trustees found that the estate was not sufficient to pay the various legacies in full. They paid over to the University in January, 1868, the sum of £560, and in September, 1878, a further and final dividend of £80, making in all £640, the free proceeds of which are applied to the payment of the two Bursars. The Senate are Patrons. Preference to the names Tayler or Taylor, Ronald, Dunlop, Henderson, and McArthur.

*Bursars*—Campbell Taylor, 1891 ; Matthew L. Taylor, 1893.

JAMES THOMSON PHILOSOPHICAL ENTRANCE BURSARY (*Arts, Phil.*).—Founded by subscription in 1878 in memory of James Thomson, M.A., a distinguished student of this University, who died in 1876, before the close of his theological curriculum. The Bursary consists of the proceeds of a sum of about £300, and is tenable for two years. It is awarded biennially for the best examination in (*a*) Mental Philosophy and (*b*) English Literature alternately, the candidate being at liberty to offer a special subject. The examination is open to all students of the first and second year who have not already attended any Class in the Philosophical Department, and who have not attended a session in any other Scottish University. The Bursary is payable in four instalments, but the last instalment will not be paid till the Bursar has passed the Departmental Examination in Classics for the M.A. Degree in Glasgow University. The subjects of Examination in Mental Philosophy are the same as for the John Ferguson Jaffrey Bursary in Mental Philosophy.

The next examination will be held in November, 1894, the subject of examination being English Literature.

WALKINSHAW YOUNG BURSARY (*Law*).—Founded in 1878 by Major Young, Dunmore, Kirn, who bequeathed to the University a sum of £500, free of legacy duty, for promoting any useful branch of Education which the Principal and Professors may think proper.

The following regulations have been adopted :—

1. The Bursary shall be tenable for two years, during which the holder shall give regular attendance as a public student in the Faculty of Law in the University, to the satisfaction of the Senate.

2. All persons who within two years previous to the time when an appointment to the Bursary is made, have, at an examination in Arts, for the Degree of B.L. passed in not fewer than two Arts subjects, or have passed a Departmental Examination for the Degree of M.A., shall be eligible as candidates, and the Senate shall appoint that one among the candidates who in their opinion is the most distinguished. A student who passes a qualifying Examination in the November of the session in which an appointment is made, shall be held eligible within this rule, but one who has passed an examination in the November two years preceding such an appointment,

and has not passed any subsequent qualifying examination, shall not be eligible.

3. The Bursary shall not be tenable along with any other Bursary or Scholarship in the University.

The next appointment to this Bursary will be made in December, 1894. Applications to be sent in to the Clerk of Senate on or before 1st December.

*Bursar*—<sup>1</sup>Alexander M. Hamilton, 1892.

WALTON BURSARY (*Medicine*).—This Bursary was founded in 1763 by Dr. William Walton, Huntingdon, for a student in Medicine. The Earl of Sandwich has the right of appointing to the Bursary one of two Students nominated by the Senate. Preference is given to "Students of the English Nation." The Bursary may be held for four years. Value about £36 per annum.

*Bursar*—Samuel Prior, 1893.

ANDREW WEIR BURSARY (*Medicine*).—Founded in 1884, in terms of a Bequest by Mrs. Janet Maxwell or Weir, relict of Andrew Weir, feuar in Paisley. Mrs. Weir bequeathed the sum of £500 to the University, and directed the annual income of the legacy to be devoted to maintaining a Bursary in connection with the Medical School, in such a manner as the Senate may appoint. The Bursary is in memory of a son of the founder, Andrew Weir, a medical student of Glasgow University, who held subsequently the post of Resident Physician in the Paisley Infirmary, and in the discharge of his duties there contracted a fever, of which he died. The Bursary is awarded annually at the beginning of the Winter Session, in accordance with the results of the second and third professional examinations, account being taken of the marks gained by all students who have passed both of these examinations within a period not exceeding thirteen months, reckoning backward from the date of the professional examinations in October of each year. During the tenure of this Bursary, which may be held along with another Bursary, the holder shall be bound to give regular attendance on the classes of the medical curriculum in the University.

*Bursar*—<sup>1</sup>James C. Robertson, M.A., 1893.

WILLIAM WHYTE BURSARIES (*Arts, Law, or Medicine*).—Four in number, founded in 1893 in memory of Mr. William Whyte, at one time Preceptor of Hutchesons' Hospital, in accordance with instructions contained in the Trust Disposition and Settlement of his daughter Mrs. Isabella Whyte or Bamber, who died in 1882. The Trustees executed a Deed of Mortification transferring £2000, less legacy duty, to Hutchesons' Hospital. The Bursaries are each of the annual value of £20, and are tenable for four sessions in the Faculties of Arts, Law, or Medicine. They are open to competition by boys who have attended and completed the curriculum in the Secondary

<sup>1</sup> Vacant through lapse of time.

Department of Hutchesons' Grammar School. Candidates must give in their names to Messrs. Hill & Hoggan on or before 1st September in each year, to be sent to the Clerk of Senate, that they may be entered for the University Entrance Bursary Competition. One Bursary will be awarded every year to the candidate highest in the order of merit who shall not have gained or been elected to hold a Bursary of equal or higher value at the general competition, provided his attainments have reached a standard satisfactory to the Patrons of Hutchesons' Hospital.

The sum of £408 15s. 8d. at the credit of the Fund at 31st December, 1892, is to be allowed to accumulate until that sum, with such additions as may accrue from any portion of the income that may not be required for the purposes aforesaid, shall amount to a sum which will produce a return of £20 yearly. There shall then be instituted a Bursary of that value, to be competed for by girls educated in Hutchesons' Girls' School, which Bursary shall be tenable at the University of Glasgow.

WILLIAMS BURSARIES (*Arts and Theology*).—The Rev. Dr. Williams, London, in the year 1711, bequeathed to certain individuals in London, in trust, an estate, to found Bursaries for educating natives of South Britain at the University of Glasgow. The founder, with a particular view to support the cause of Protestant dissent in England, directs that every Bursar on this foundation shall promise, in writing, to become a preacher among the dissenting ministers of that country. The Bursaries are tenable for three years, but renewable for another year on application, on the understanding that the student has graduated in Arts, and is about to enter the Divinity Hall. Value, £40 per annum each. The right of presentation is vested in the founder's trustees. Secretary to the Trust—Mr. Francis H. Jones, Dr. Williams' Library, Gordon Square, London, W.C. The state of the funds of this foundation will not admit of more than one appointment being made in session 1894-95.

*Bursars*—Hugh E. Griffith, 1892 ; Thomas E. Jones, 1893 ; James L. Ainslie, 1893 ; Thomas W. Jones, 1893 (one year).

WILSONE BURSARY (*Theology*).—Two Bursaries, value £6 13s. 4d. per annum each, were founded by Mr. Michael Wilsons, in 1640. Patrons—The City Magistrates and Council.

By ordinance of the Universities Commissioners, of date 17th May, 1862, confirmed by Her Majesty in Council, these Bursaries were conjoined into one, tenable for three years ; the holder to be M.A. in regular attendance as a student of Theology. Restrictions as to kindred, etc., abolished.

*Bursar*—John H. H. McNeill, 1892.

GEORGE YOUNG BURSARY (*Science*).—By Trust Disposition and Settlement, of date 30th August, 1892, Mrs. Catherine McFarlane



or Young, who died at Helensburgh on 4th November, 1893, directed her Trustees to make over to the Senate of the University of Glasgow the sum of £1000 free of legacy duty for the purpose of founding, in memory of her husband and son, a Bursary in connection with the class of Civil Engineering, on such terms and conditions as the Senate should from time to time fix.

MAJOR YOUNG'S FUND BURSARIES (*Law*).—Two in number, founded in 1890, by the Trustees of the late Major Young, founder of the Walkinshaw Young Bursary. The amount of the Bursary Fund is about £1,312, and each of the Bursars receives one-half of the free annual income thereof. In accordance with Major Young's desire, the Bursaries are open only to applicants whose pecuniary circumstances are such as in the judgment of the Senate render it desirable that they should have assistance in prosecuting their studies at the University, preference being given, *ceteris paribus*, to natives of Argyllshire or Renfrewshire. One of the Bursaries is tenable for six years, and is awarded by competitive examination to a student of the first year who intends to study for a Degree in Law. The Bursar is required during his tenure of the Bursary to attend such classes, and to pass such examinations for a Degree in Law as shall be held by the Senate to correspond to the successive stages of his course; and he must attend a class or classes in the Faculty of Law during at least the last two years of his tenure of the Bursary. The other Bursary is tenable for two years, and is awarded by competitive examination upon subjects prescribed by the Senate. Candidates must have expressed their intention of attending the classes of Scots Law and Conveyancing, and the Bursar must attend these classes in separate sessions during his tenure of the Bursary. Either of these Bursaries may be held with any other Bursary, Scholarship, or Prize in the University, but both shall not be held together by one Bursar. The subjects of examination are those prescribed for the General Bursary competition.

*Bursars*.—Alexander M. MacRobert (six years), 1890; <sup>1</sup> Hamilton P. Paterson, M.A. (two years), 1892.

## 2. EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS.

### ALPHABETICALLY ARRANGED.

*N.B.*—In cases in which a Scholarship or Fellowship falls vacant otherwise than by lapse of time, the Senate may, except where it is inconsistent with the deed of foundation, hold a competition, and make an appointment for the remainder of the period for which such Fellowship or Scholarship may be held. At the next ordinary competition no student shall be excluded from the competition by reason of his having previously been appointed to fill a vacancy for less than the full period; but in no case shall any student hold such Scholarship or Fellowship for longer than the full period fixed in the regulations applicable to such foundation.

<sup>1</sup> Vacant through lapse of time.



FOUNDATION.	No. of Scholarships, &c.	TENABLE BY	Approximate Annual Value of each.
Black Theological, -	1	Masters of Arts of Scot. Univ.,	£147
Breadalbane, - - -	2	M.A. or B.Sc., Eng., Glas. Univ.,	£50
Clark, George A., - -	4	3 M.A., 1 B.Sc., do.	£180
Clark, John (Mile-end),	11	Arts Students at close of Curric.,	£50
Cunninghame, - - -	2	Bachelors of Laws of Glas. Univ.,	£32
Alexander Donaldson,	1	Candidates for B.Sc. (Chemistry),	£38
Robert Donaldson, - -	2	Bachelors of Science of Gl. Univ.,	£62
Eglinton, - - - - -	2	Masters of Arts of do.	£100
Euing, William, - - -	3	Do. do.	£80
1851 Exhibition Science	2	Science Students, - - - -	£150
Ferguson, - - - - -	6	Masters of Arts of Scot. Univ.,	£80
Foulis Memorial, - - -	1	Medical Graduates or Licentiates,	£50
Lloyd's Register, - - -	3	Students of Naval Architecture,	£50
Luke, - - - - -	1	Masters of Arts of Glas. Univ.,	£80
Mackay Smith, - - - -	2	Students in Nat. Phil. and Chem.,	£48
Metcalfe, - - - - -	1	Masters of Arts of Glas. Univ.,	£100
Sandford, - - - - -	1	Greek Students, do.	£20
Scott, - - - - -	1	Masters of Arts of do.	£80
Shaw Philosophical, - -	1	Do. Scot. Univ.,	£160
Snell (at Oxford), - - -	5	Masters of Arts, etc., Glas. Univ.	£80
Thomson Experimental	3	Students of Natural Philosophy,	£20

**BLACK THEOLOGICAL FELLOWSHIP.**—This fellowship, of the annual value of £140 or thereby, was instituted under the Will of the late Mrs. Janet Black (who died in 1876) in memory of her husband, the Rev. William Black, D.D., minister of the Barony Parish of Glasgow. Candidates must be members of the Established Church of Scotland.

The following regulations have been adopted by the Senate with the sanction of the University Court.

1. The Black Theological Fellowship shall be tenable for one year.

2. It shall be awarded by competition open to Masters of Arts from any of the Universities of Scotland completing the ordinary curriculum of Theological study in the University of Glasgow in the academical year in which the examinations are held.

3. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

4. The Fellowship shall be awarded by the Theological Faculty at the close of the winter session to the most distinguished graduate in Divinity of the session qualified in terms of the foundation, but the Fellowship shall be awarded only if the Candidate has, in the opinion of the Faculty, attained a sufficient standard of merit.

5. The holder of the Fellowship shall, during the tenure of it, perform such duties—whether in the form of giving a short course

of lectures, or of undertaking tutorial work, or otherwise—within the University, as may be assigned to him by the Faculty of Theology with the sanction of the Senate.

6. The Fellowship shall not be held in conjunction with any other Theological Fellowship or Scholarship or Prize falling to be awarded at the same time, or subsequently during its tenure.

Subject to these regulations an appointment to the Fellowship will be made in April, 1895.

*Present Fellow*—John M'Gilchrist, B.D., April, 1894.

**BREADALBANE SCHOLARSHIPS.**—The second Marquis of Breadalbane, an alumnus, and afterwards Rector of the University, gave from the first year of his Rectorship (1840-41), and during his lifetime, the sum of £100 annually, which was for some years distributed in prizes among certain classes, and afterwards appropriated to the establishment of two Scholarships, the one in Mathematical and Physical Science, and the other in Mechanical Philosophy, Chemistry, and those branches of Natural History that are connected with the Arts and Manufactures.

The Marquis died in 1862, and his Deed of Settlement made provision for the “annual payment, in all time coming, to the University of Glasgow, of the sum of £100, to be paid yearly to deserving students in this college, as Scholarships or Bursaries, to be called the ‘Breadalbane Scholarships,’ in such manner as shall be fixed by the Senatus Academicus of the said University.”

The following regulations have been approved by the Senate :—

The number of Scholarships shall be two, of £50 each per annum, for the encouragement of pure and applied Science.

The scholars shall be chosen, after competitive examination in Mathematics and Natural Philosophy, from among candidates who shall have taken the Degree of Master of Arts, or the Degree of Bachelor of Science in the Department of Engineering Science, at the University of Glasgow, within a period of not more than three years preceding the examination; provided always that students graduating at the supplementary graduation in November of any year, shall, for all purposes, be held to have graduated at the ordinary graduation in May immediately preceding.

Each scholar shall pursue such course of scientific study during the tenure of his Scholarship as the Senate shall in each case prescribe, and shall hold his Scholarship for three years, provided that at the end of the 1st and 2nd years he give the Senate such evidence, by examination or otherwise, as the Senate shall deem sufficient, of having successfully prosecuted the prescribed course of study.

One of these Scholarships will be competed for in October, 1894. Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on 26th September, 1894.

*Scholar*—John D. Cormack, B.Sc., 1892.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS.—By the Will of the late Mr. George A. Clark, manufacturer, Paisley, a sum of £20,000 was bequeathed in 1872 to this University for the creation of four Bursaries, tenable each for four years. The following are the regulations :—

1. One of these Bursaries shall be competed for annually, at or immediately after the October examination for Degrees in Arts or Science.

2. The four Bursaries are assigned respectively to the four departments of Honours, enumerated in the ordinances, Nos. 14 and 18, of the Universities Commissioners (1858), viz. :—

(1) Classical Literature.

(2) Mental Philosophy, including Logic, Metaphysics, and Moral Philosophy.

(3) Mathematics, including Pure Mathematics, and Natural Philosophy.

(4) Natural Science, including Botany, Geology, Zoology, and Chemistry.

For the Classical Literature Bursary or Scholarship either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours, in Classical Literature, may be candidates ; for the Mental Philosophy Bursary or Scholarship, either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mental Philosophy, may be candidates ; for the Bursary or Scholarship in Mathematics either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mathematics, or Bachelors of Science of this University who have taken the degree of B.Sc. in Pure Science, or students presenting themselves for the final examination for the B.Sc. Degree in Pure Science, may be candidates ; and for the Natural Science Bursary or Scholarship either Bachelors of Science of this University who have taken the Degree of B.Sc. in Pure Science, or students presenting themselves for the final examination for the B.Sc. Degree in Pure Science, may be candidates.

But no student shall be eligible for the examination after the expiration of more than three winter sessions from the time of his completing the course necessary for the M.A. Degree or the B.Sc. Degree.

3. The successful candidate shall undertake, during his tenure of the Bursary, to give such assistance in the teaching work of the University, and to follow such a course of study in the University, as the Senate may determine.

4. The subjects of examination each year shall be those which

constitute the examination for Honours in one of the above-named departments (the department selected each year for examination to be publicly announced). The Senate reserve the right to withhold the Scholarship, should none of the competitors reach the standard of attainment required of graduates in Arts with highest honours.

5. In the event of the examiners reporting in any year that no candidate has done sufficiently well in the subjects of that year to deserve the Scholarship, no appointment shall be made in that year; but it shall be in the power of the Senate to hold an examination for the same Scholarship, and in the same subjects, in the following year, provided that in that case the Scholarship shall be held for three years only and not for four, the surplus revenue being added to the capital of the fund. Should the same thing occur again, it shall be in the power of the Senate to appoint a Scholar for two years only, or for one year only, the examination in each case being in the same subjects as when the Scholarship was first competed for. In the same manner, in the event of a vacancy occurring in the tenure of any of the Scholarships otherwise than by lapse of time, the Senate may make an appointment for the remainder of the term for which the Scholarship might have been held by the student vacating it, and after examination in the same subjects as those for proficiency in which the Scholar was originally appointed; but in no case shall the regular rotation of subjects as above provided for be disturbed. In the competition for scholarships to be held for less than four years, no student shall be admitted to examination who would not be eligible, as above arranged, for a Scholarship to be held for four years. In the event of a candidate being appointed to a vacancy to be filled for less than four years, and being still eligible, under the usual regulations as above, to compete for the said Scholarship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Scholarship, but in no case shall any student be permitted to hold the Scholarship for more than four years in all.

6. It shall not be competent for the holders of these Bursaries to hold any other Bursary or Scholarship in this University.

7. It shall be in the power of the Senate to deprive any Bursar of his Bursary, in the event of his not complying, to their satisfaction, with any of the above regulations.

8. The Examiners shall be the same as the Examiners for the Degree of M.A. with Honours in each of the several departments, and for the Degree of B.Sc.

Two of these Bursaries or Scholarships will be competed for, subject to the foregoing regulations, in October, 1894. One will be tenable for two years, and the examination will be in the fourth of the four departments above enumerated—viz., Natural Science. The other will be tenable for four years, and the examination will be in Mental Philosophy. Candidates are requested to give in

their names to the Assistant Clerk (Matriculation Office), not later than 26th September.

*Bursars*—<sup>1</sup>Robert Bulloch Douglas, M.A., 1892 (two years) (Mental Philosophy); James Holm, M.A., 1891 (Mathematics); John E. McFadyen, M.A., 1893 (Classics).

JOHN CLARK (MILE-END) SCHOLARSHIPS.—By the Deed of Constitution regulating the John Clark Bursaries (see page 204), the Founder, Mr. John Clark, also instituted Scholarships of £50 annual value, open for competition to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University. The Scholarships are to be awarded to the candidates who stand highest at written examinations in the branches of learning appointed by the trustees, and are tenable for four years, subject to the condition that the Scholars give their undivided time and attention to the prosecution of their studies with a view to any of the learned professions, or, on approval of the trustees, any other profession or business they may prefer. The trustees do not appoint any one who already holds a scholarship of greater value. Three Scholarships will be competed for in October, 1894, one in the department of Classics, one in the department of Mental Philosophy, and one in the department of Mathematics. The examination will be on the subjects prescribed for the Degree of M.A. with Honours in the respective departments.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office), and also to Mr. Wm. Kidston, 50 West Regent Street, Glasgow, on or before the 26th September.

*Scholars*—<sup>1</sup>James Moffat, 1890; Campbell C. Edgar, 1891; Robert Bulloch Douglas, 1891; John G. Spens, M.A., 1892; Robert S. Horne, 1892; Gilbert Buchanan, M.A., 1892; Charles W. Thomson, 1893; Gavin L. Pagan, 1893; Peter Pinkerton, M.A., 1893.

ANDREW CUNNINGHAME SCHOLARSHIPS.—Mr. Andrew Cunningham, Town Clerk Depute of Glasgow, who died in 1886, bequeathed to the University, free of legacy duty, £5,000, for the purpose of completing the tower, and also £350, the annual revenue of which was to be applied in purchasing a gold medal as a prize in the class of Mathematics. He also bequeathed to the Senate £2,000 for two Bursaries or Scholarships in connection with the Scots Law and Conveyancing Classes. The following regulations were adopted by the Senate on 15th March, 1888:—

I. One-half of the free income of the bequest shall be applied for the purpose of a Scholarship in connection with the class of Scots Law, and the remaining half for the purpose of a Scholarship in connection with the class of Conveyancing.

<sup>1</sup> Vacant through lapse of time.



2. Each Scholarship shall be tenable for two years.

3. On each vacancy the candidate who, in the opinion of the Senate, is the most distinguished Bachelor of Laws of the year, shall be appointed, special consideration being given to eminence in Scots Law and Conveyancing.

4. Students who have been found qualified for the Degree of LL.B. at the spring and winter graduations of the year in which the appointment is made, shall be eligible as candidates.

5. The conditions of holding the Scholarships are that the scholars give such assistance in the work of the classes of Scots Law and Conveyancing respectively as the Professors of these classes may require, subject to the approval of the Senate.

6. In the event of a vacancy occurring during the tenure of any Scholarship, the Senate may, if they think fit, appoint a Scholar to hold the Scholarship for the unexpired period.

An appointment to the Conveyancing Scholarship will be made in November, 1894.

*Scholars.*—<sup>1</sup> Herbert C. Boyd, LL.B., 1892; David B. Pattison, LL.B., 1893.

ALEXANDER DONALDSON SCHOLARSHIP OR BURSARY.—Founded in 1881, by Will of the late Mr. Alexander Donaldson, iron merchant in Glasgow, who bequeathed to the Senatus of Glasgow University £1,000, to be administered by them as patrons for the endowment of a Scholarship or Bursary, at their discretion, in connection with the said University.

The following regulations were adopted by the Senate on 1st May, 1884:—

1. The Scholarship shall be awarded to the candidate who, presenting himself for the first examination for the Degree of B.Sc., held in the month of April, shall stand highest in Chemistry.

2. The Scholarship shall be tenable for two years.

3. The second moiety of the second year's stipend shall be paid only after the Scholar has passed all the examinations for the Degree of B.Sc.

These regulations apply to students proceeding to the Degree of B.Sc. under the new regulations for that Degree.

*Scholar.*—Charles E. C. Stanford.

ROBERT DONALDSON SCHOLARSHIPS.—Founded in 1887 by the trustees of the late Mr. Robert Donaldson, iron merchant, Glasgow, who left £2,000 to the Senate for two Scholarships for such scientific purposes as his trustees should approve. The following tentative scheme has been approved by the trustees:—

1. The income of the fund shall be devoted for two years alternately to Scholarships in Chemistry and Biology.

2. Each Scholarship shall be tenable for two years.

<sup>1</sup> Vacant through lapse of time.



3. Students who have taken the Degree of B.Sc. in Glasgow University shall be eligible.

4. The appointment shall be made by the Senate on a report as to the merits of the candidate or candidates by the Professor of the subject.

5. The scholar appointed shall devote himself for two years in this University, or for one year in this University and the other in such place as the Senate may approve, to research in the subject in which he has obtained the Scholarship. The holder of the Scholarship in Biology shall have the option of selecting Zoology or Botany as the subject of research.

6. The Senate are not bound to make an appointment unless the candidate is in their opinion qualified.

An appointment to the Scholarship in Biology will be made in November, 1894. Candidates are required to give in their names to the Assistant Clerk (Matriculation Office), on or before the 26th September, 1894.

*Scholar*—<sup>1</sup>David R. Boyd, B.Sc., 1892.

EGLINTON FELLOWSHIPS.—On the death of the Earl of Eglinton, formerly Rector of the University of Glasgow, a committee was formed to collect subscriptions for the purpose of commemorating in a suitable manner his virtues and public services; and, subscriptions having been received to the amount of £7,000, it was resolved by the subscribers, in 1862, to set apart £4,500 out of this sum as a Scholarship or Fellowship Fund in the University of Glasgow.

By the Trust Deed of date November 8th, 1865, the net yearly produce of the said sum (after deducting expenses) is to be appropriated to the support of one or more Fellowships, not exceeding three, to be competed for by the alumni of the College of Glasgow, and to be held for a period not exceeding four years, upon the following conditions, viz.: First,—The number of Fellowships, and the period during which the same are to be held, shall from time to time be fixed by the *Senatus Academicus* of the said University. Secondly,—The competition for the Fellowships shall be open only to deserving students who shall have taken the Degree of Master of Arts in that University at the term preceding the competition,<sup>2</sup> and the Fellowships shall be awarded by the *Senatus Academicus* of the University to those students who have shown themselves in a public competition to have acquired the greatest amount of knowledge and proficiency in the branches of study embraced in the curriculum of Arts, and such branches of Natural Science as the Senate shall, from time to time, require. And, Thirdly,—The Examination for the Fellowships shall be under the direction of the *Senatus Academicus* of the University, who shall fix the subjects of examination, and the

<sup>1</sup> Vacant through lapse of time.

<sup>2</sup> i.e., Either at the ordinary Graduation in May or at the Supplementary Graduation in November.

relative value of each subject in the competition, and appoint any of their own number, or other fit persons, to be Examinators, and make such regulations with relation to the said Fellowships, and the competition and examination therefor, as from time to time they may think fit.

The following are the regulations of the Eglinton Fellowships:—

1. The number of the Eglinton Fellowships shall be two (of about £100 per annum each), tenable for three years, subject to the approval of the Senate at the end of the first and second year.

2. The competition for the Fellowship shall be open only to deserving students who shall have taken the Degree of Master of Arts in the University of Glasgow, at the term preceding the competition.<sup>1</sup> In the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

3. One of the Fellowships shall be open to competition in October, 1866, and thereafter triennially (1896); and the other in October, 1867, and thereafter triennially (1894).

4. The successful candidate shall undertake, during his tenure of the Fellowship, to follow such a course of study in the University, or to give such assistance in the teaching work of the University, as the Senate may determine.

5. The Examination for the Eglinton Fellowship to be competed for in October, 1890, and thereafter sexennially, shall be in Classics; and the Examination for the Eglinton Fellowship to be competed for in 1893 and thereafter sexennially, shall be in Mental Philosophy.

The subjects of examination in Classics and Mental Philosophy respectively shall be the same as those for the Degree of Master of Arts with Honours.

6. The subjects of examination for the Eglinton Fellowship to be competed for in October, 1888, and thereafter triennially, shall be the subjects of examination for the Degree of Master of Arts with Honours in Mathematics and Natural Philosophy.

7. The Eglinton Fellowship shall not be held along with the Snell Scholarship, or Breadalbane Scholarship, and the holder of the Luke Fellowship or of the Metcalfe Fellowship shall not be admitted to compete for the Eglinton Fellowship.

The next ordinary competition will take place in October, 1894, the subject of examination being Mathematics and Natural Philosophy.

<sup>1</sup> *i.e.*, Either at the ordinary Graduation in May or at the Supplementary Graduation in November.

Candidates are required to give in their names to the Assistant Clerk (Matriculation Office) on or before 26th September, 1894.

*Fellows*.—<sup>1</sup>Horatio S. Carslaw, M.A., 1891; Gilchrist G. Alexander, 1893.

WILLIAM EUING FELLOWSHIPS.—Founded in 1874 by Mr William Euing, insurance broker, Glasgow, who by his Will bequeathed to the University, along with a library of rare and valuable books, the sum of £6,000 for the endowment of three Fellowships, each of the value of £80 per annum, and tenable for not more than five years. The Fellowships are open only to deserving students who have completed the regular curriculum in Arts, and taken the Degree of M.A. at this University, and are awarded after competition in the subjects of the Arts curriculum. The Fellows are required to reside in Glasgow for at least nine months in the year, and “to open private classes, of limited numbers, for giving instruction to, and aiding students of the University—more especially during the vacation, or such part thereof as may be found expedient—in such studies as may be auxiliary to, or illustrative of, the course of lectures which such students may have attended, or be desirous of attending, and also to carry out the same purpose by a systematic course of private tuition.”

One Fellowship is attached to the department of Classics, one to the department of Mathematics and Natural Philosophy, and one to the department of Mental Philosophy, including Logic, Moral Philosophy, and English Literature.

The Senate have issued the following regulations for the competition for these Fellowships:—

1. In the department of Classics there shall be one Fellowship competed for in October, 1875, and thereafter at intervals of four years (1895), the period for which the Classical Fellowship shall be ordinarily tenable.

2. In the department of Mental Philosophy one Fellowship shall be competed for in October, 1876, and thereafter at intervals of three years (1894), the period for which the Fellowship in the department of Mental Philosophy shall be ordinarily tenable.

3. In the department of Mathematics and Natural Philosophy one Fellowship shall be competed for in October, 1875, and a Fellow appointed for two years; the Mathematical Fellowship becoming vacant in October, 1877, shall be filled up for a period of three years (1895), the period for which the Fellowship in this department shall be ordinarily held.

In the event of a candidate being appointed to a vacancy to be filled for less than four years in the department of Classics, or for less than three years in the department of Mental Philosophy, or of Mathematics and Natural Philosophy, and being still eligible,

<sup>1</sup> Vacant through lapse of time.

under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than four years in all, or three years in all, respectively.

A Fellowship in Mental Philosophy will be open to competition in October, 1894.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office) on 26th September, 1894.

*Fellows*—John H. Pagan, M.A., 1891 (Classics); <sup>1</sup>James R. Cameron, M.A., 1891 (Mental Philosophy); Walter Stewart, M.A., 1892 (Mathematics).

EXHIBITION (1851) SCIENCE SCHOLARSHIPS.—Her Majesty's Commissioners for the International Exhibition of 1851 have instituted Science Scholarships, each of the annual value of £150, and tenable for two years, subject to the scholar's first year's work being deemed satisfactory by the Scientific Committee of the Commissioners. The nomination to a Scholarship was placed at the disposal of this University in each year since 1891, and it is anticipated that similar arrangements will be made in future years.

Candidates must be British subjects, and must have been students of Science in some approved institution or institutions for a period of three years, at least the third year of the period having been spent in this University. Capacity for original research tending to advance Science or its applications is required as one of the main qualifications. The Scholarships may be held at any University in England or abroad, or in some other institution approved of by the Commissioners. A scholar is expected to spend at least one year of the term at an institution other than that by which he is nominated. He must devote himself to some particular scientific work in connection with those branches of Science, such as Physics, Mechanics, and Chemistry, the extension of which is especially important to our national industries. A sum of £25 is reserved from the fourth half-yearly instalment, and paid by the Commissioners on receipt from the Scholar, after the expiration of his Scholarship term, of a satisfactory report of his study and research during the term.

When a nomination falls to be made in any year, due notice will be given to enable candidates to lodge their applications with the Clerk of Senate before the beginning of April. Every application must be accompanied by a statement of the scientific study (including original research) in which the candidate has been engaged, and of the work to which he proposes to devote himself if appointed to the Scholarship.

*Scholars*—George E. Allan, 1893; J. R. Erskine Murray, B.Sc., 1894.

<sup>1</sup> Vacant through lapse of time.

FERGUSON SCHOLARSHIPS.—With a view to the encouragement of the higher learning in Scotland, the trustees of the late Mr. Ferguson, of Cairnbrock, out of his legacy of £50,000 for educational and other purposes, instituted in 1860 six Scholarships, each of the value of £80 per annum, to be held for two years, and to be called “The Ferguson Scholarships.”

The examination of candidates for three of these Scholarships will be held in Glasgow, on Tuesday, 25th September next, and following day. One of the Scholarships will be awarded for the greatest proficiency in Classics; one for the greatest proficiency in Mathematics, including Natural Philosophy; and one for the greatest proficiency in Mental Philosophy, including Logic, Metaphysics, and Ethics.

Subjects for examination—

CLASSICAL SCHOLARSHIP.—*Latin*—Plautus, *Miles Gloriosus*, *Rudens*. Virgil, *Eclogues*, *Aeneid*, Books VII.–XII. Horace, *Odes*, *Epistles*, I. II., *Ars Poetica*. Juvenal, *Satires*, I., III., IV., V., VII., X. Tacitus, *De Oratoribus*, *Annals*, XI.–XIV. Cicero, *Pro Cluentio*, *Philippic* II. Translation from Authors not prescribed. Latin Prose Composition.

*Greek*.—Homer, *Iliad*, Books XVIII.–XXIV. Sophocles, *Oedipus Coloneus*, *Trachiniae*, *Philoctetes*. Aristophanes, *Knights*, *Wasps*, *Frogs*. Herodotus, Books VII., VIII. Thucydides, Books VI., VII. Plato, *Republic*, VI.–X. Translation from Authors not prescribed. Greek Prose Composition.

Questions on Greek and Roman History, Literature, Language, and Antiquities. The Questions will bear chiefly on the books prescribed.

MATHEMATICAL SCHOLARSHIP.—*Mathematics*.—Euclid's Elements. Modern Geometry. Algebra, including Determinants, Finite Differences, and Theory of Equations. Trigonometry, Plane and Spherical. Analytical Geometry, in two and three dimensions. Differential and Integral Calculus, and Differential Equations.

*Natural Philosophy*.—Abstract Dynamics (commonly called Mechanics), including Kinematics and Statics and Kinetics of Solids and Fluids. Experimental Physics and Applied Mathematics, including all the ordinary subjects treated in Lectures on Natural Philosophy.

PHILOSOPHICAL SCHOLARSHIP.—*Logic*.—Province and History of Logic. Logical Forms of Notions, of Judgments, and of Inferences. Fallacies and their Causes. Evidence. Authority and Historical Proof. Physical Science and its Methods. Recent discussions affecting Logic.

*Metaphysics*.—Psychology and Ontology. Nature, Origin, and Limits of Man's Knowledge of Self, the Material World, and God.

History and Critical Analysis of Ancient and Modern Metaphysical Systems.

*Moral Philosophy.*—Psychology and Metaphysic of Ethics. Moral Faculty, Motives, and Will. Moral Government of the World and cognate Questions. Applied Ethics, including relations of Ethics to Law and Politics. History and Critical Analysis of Ancient and Modern Ethical Theories.

The competition will be open to all persons who have passed the last of the Examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the degree at the same time or not) within two years immediately preceding, and who have not already gained one of these Scholarships or competed more than once previously for any of them.

The Examinations will be conducted in writing, and the Scholarships awarded on the report of the Examiners as to the merit of the Candidates, but the minimum of 600 out of 1,000 marks must be reached in order to entitle to a Scholarship.

The Scholarships, of £80 each per annum, are tenable for two years, subject to fulfilment of the following rule of the trustees :—

“Persons gaining the Scholarships will, during the tenure thereof, be expected to prosecute studies in furtherance of the higher learning; and those who have not graduated shall be required to do so before the last payment is made. Any case of conduct unbecoming a scholar and a gentleman shall incur forfeiture of the Scholarship, of which the trustees shall be sole judges.”

Certificates will be granted to such of the unsuccessful competitors as, in the opinion of the Examiners, shall have taken a distinguished position in the Examinations.

Candidates are requested to give in their names, personally or by letter, at the Office of THE FERGUSON BEQUEST FUND, 94 Bath Street, Glasgow, not later than 1st September, 1894, and due intimation will be sent to those enrolled as to the place and hours of Examination.

The following Students of the University of Glasgow have obtained Ferguson Scholarships :—

1868, James Smith, Mathematical ; 1869, Archibald B. Cameron, Philosophical ; 1870, John Cross, Classical ; 1870, James Orr, Philosophical ; 1872, Wm. W. Waddell, Classical ; 1873, Thomas H. Millar, Mathematical ; 1874, William Patrick, Philosophical ; 1875, William Y. King, Classical ; 1878, John M<sup>A</sup>. Dodds, Mathematical ; 1878, Thomas B. Kilpatrick, Philosophical ; 1882, Robert F. Muirhead, Mathematical ; 1883, James A. McCallum, Philosophical ; 1886, James Buchanan, Mathematical ; 1886, Andrew F. Smith, Philosophical ; 1888, Ernest F. Scott, Classical ; 1889, Evan Keri Evans, M.A., Philosophical ; 1890, Abraham Levine, M.A.,



Mathematical ; 1891, James Holm, M.A., Mathematical ; 1893, Horatio S. Carslaw, M.A., Mathematical.

*Present Holders of the Scholarships.*—William E. Philip, M.A., of Edinburgh University, Mathematics, 1892 ; Hugh R. Mackintosh, M.A., of Edinburgh University, and David Irons, M.A., of St. Andrews University, Mental Philosophy, 1892 ; Alexander Souther, M.A., of Aberdeen University, Classics, 1893 ; Horatio S. Carslaw, M.A., of Glasgow University, Mathematics, 1893.

**FOULIS MEMORIAL SCHOLARSHIP.**—This Scholarship was founded in 1882 in memory of the late David Foulis, M.D., Glasgow, who had distinguished himself in Pathology and Surgery, and died at the age of 35 years. It is to be awarded as often as the accumulated income from the invested funds amounts to £50. The next appointment will not take place until September, 1894. It is tenable by a graduate or licentiate whose professional education has, to the extent of not less than two years, been received at the University or one of the extra-mural schools of Glasgow ; and who shall, in the opinion of the trustees, have manifested a capacity for original work in the department of Pathology. The purpose of the Scholarship is to assist in the prosecution of such work in one of the Medical Schools in or furth of Scotland, approved of by the trustees ; and the trustees have power to determine whether it should be awarded by competition or otherwise.

The trustees are the Professor of Practice of Medicine in the University, the President and Visitor of the Faculty of Physicians and Surgeons of Glasgow, and the Pathologists of the Western and Royal Infirmaries. Secretary, Alexander Foulis, Esq., 180 St. Vincent Street, to whom applications should be sent on or before 1st September, 1894.

*Scholar*.—<sup>1</sup>Lewis R. Sutherland, M.B., 1892.

**LLOYD'S REGISTER SCHOLARSHIP.**—In 1889 the general Committee of Lloyd's Register of British and Foreign Shipping intimated their intention of establishing a Scholarship of the yearly value of £50, tenable for three years by students of Naval Architecture in this University. In 1893 two additional Scholarships, each of the same value and tenure as the first, were announced. They are open to competition to candidates whose age does not exceed 23 years. Each candidate must produce satisfactory evidence that £50 a year would enable him to pursue his studies, and that he would be unable to do so unless this aid were afforded. The subjects of examination are the following :—Euclid, Books I. II. III. IV. VI. and XI. ; Algebra, including Quadratic Equations, the three Progressions, and Binomial Theorem ; Plane Trigonometry, with use of Logarithms ; Elements of Statics,

<sup>1</sup> Vacant through lapse of time.

Dynamics, and Hydrostatics ; Practical Shipbuilding ; Mechanical Problems. A preference will be given to a candidate who possesses a thorough grammatical knowledge of English and of either French or German, although he may be somewhat deficient in the other subjects prescribed. One Scholarship will be open to competition in October, 1894. Names of Candidates to be sent to the Assistant Clerk (Matriculation Office), on or before 26th September, 1894.

*Scholar*—James M. Dickson, 1892.

LUKE FELLOWSHIP.—In 1863, the late William Luke, Esq., of Edinburgh, bequeathed to the University of Glasgow the sum of £3,000 sterling, “to perpetuate the memory of his nephew George Rankin Luke” (formerly a highly distinguished student of this University, and afterwards student of Christ Church, Oxford), “in such a manner as his esteemed friend, Professor Nichol, may consider most beneficial.” Professor Nichol exercised the discretionary power thus conferred on him by directing that the sum bequeathed should be applied to the founding of a Luke Fellowship. The following are the regulations :—

1. There shall be a single Luke Fellowship (of about £80 per annum), tenable for three years, subject to the approval of the Senate at the end of the first and second years.

2. The Luke Fellowship shall be awarded on examination on English Literature, and on prescribed periods in History.

3. The successful competitor shall be bound to give such assistance in the teaching of the class of English Literature as the Senate may in each case prescribe.

4. The Luke Fellowship shall be open to competition in October, 1868, and thereafter triennially.

5. Competitors for the Luke Fellowship must be Masters of Arts of this University, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall, for all purposes, be held to have graduated at the ordinary graduation in the May immediately preceding.

6. The Luke Fellowship shall not be held along with the Snell Scholarship, the Clark Scholarship, the Eglinton Fellowship, or the Euing Fellowship.

7. Students who have competed at one Luke Fellowship Examination shall not be admitted to another, nor shall the holder of the Eglinton Fellowship ; but in the event of a candidate's being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the Luke Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

The next competition for the Luke Fellowship will take place in October, 1898.

*Fellow*—Nicol Macnicol, M.A., 1892.

**MACKAY SMITH SCHOLARSHIPS.**—One in Natural Philosophy, the other in Chemistry, each of the annual value of £48, and tenable for two years in the Universities of Edinburgh and Glasgow alternately. During sessions 1882-83 and 1883-84 they were held in the University of Edinburgh, and during sessions 1884-85 and 1885-86 in the University of Glasgow. The next examination will be held in this University at the close of session 1896-97. Candidates must have already attended, or must be then attending the class of Natural Philosophy or Chemistry respectively. The examination in Chemistry will be held along with the examinations for the Degree of B.Sc. (new regulations), and the examination in Natural Philosophy along with the examinations for M.A.

*Scholars*—William C. Anderson, 1893 (Chemistry); Alexander G. Craig, 1893 (Natural Philosophy).

**METCALFE FELLOWSHIP.**—Founded by the late Miss Sarah Metcalfe, Glasgow. (See under Metcalfe Bursaries, p. 231.)

The following are the regulations of the Metcalfe Fellowship:—

1. There shall be a Fellowship on the Metcalfe Foundation of the annual value of £100, tenable for three years, to be competed for in October, 1872, and thereafter triennially (1896).

2. Candidates must be Masters of Arts with Honours in the department of Mathematics and Natural Philosophy, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall for all purposes be held to have graduated at the ordinary graduation in the May immediately preceding.

3. The examination shall be the examination for the Degree of Master of Arts with Honours in the department of Mathematics and Natural Philosophy.

4. The Fellowship shall be held subject to the condition of pursuing a course of study in such of the following subjects—viz., Higher Mathematics, Practical Astronomy, Civil Engineering, and Chemistry—as the Senate shall in each case prescribe.

5. The Metcalfe Fellowship shall not be held along with the Eglinton Fellowship, the Snell Scholarship, or the Breadalbane Scholarship; and the holder of the Eglinton Fellowship shall not be allowed to compete for the Metcalfe Fellowship; but in the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to com-

pete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

*Fellow*—William S. Templeton, M.A., 1893.

**SANDFORD SCHOLARSHIP.**—Founded in 1862 (by the investment of a sum of £520, raised by subscription), in memory of Sir Daniel K. Sandford, the eminent Professor of Greek in this University, who died in 1838. It is tenable for two years, and is awarded to the student who, on examination, gives proof of the greatest proficiency in the Greek language. Value about £20 per annum.

The examination of candidates for this Scholarship takes place every alternate year in the month of April (1895), and is open to all matriculated students (not Masters of Arts) who have attended the Public Greek Classes for not less than two sessions.

The subjects of examination are selected from the following authors:—Homer, 12 books; Herodotus, 4 books; Sophocles, 3 plays; Thucydides, 4 books; Æschylus, 3 plays; Demosthenes, one or more orations; Aristophanes, 3 plays; Xenophon's *Memorabilia*; Pindar; Plato, one or more dialogues.

Candidates are examined on not more than four of the above-mentioned authors (of which Homer is always one)—two in prose and two in verse; and the subjects for each examination are given out by the examiners at the end of the session previous to that in which the examination takes place. Candidates are also examined on Translations from Greek into English, with Criticisms, and Translations, in prose and verse, from English into Greek.

Subjects for April, 1895.—Homer, *Iliad*, XIII.—XXIV.; Æschylus, *Oresteia*; Demosthenes, *The Crown*; Plato, *Phædo*. Unseen Translation; Prose Composition. Candidates are at liberty to offer Verse Composition also.

*Scholar*—Robert G. Nisbet, 1893.

**SCOTT SCHOLARSHIP.**—(See under head "Scott Bursaries," p. 240).—This Scholarship, in value £80 per annum, is open for competition to Masters of Arts in the University of Glasgow of not more than three years' standing, having graduated with Honours in Classics or in Mental Philosophy, or to students who, at the time of competition, are presenting themselves for the final examination in the said University for the M.A. Degree with Honours in Classics or in Mental Philosophy. The examination to be in Classics, Mental Philosophy, and English Literature, which may include History. The Scholarship is tenable for two years, and the holder is required to follow such a course of study in the University of Glasgow, or give such assistance in the teaching work of the University as the Senatus Academicus may determine. The Scott Scholarship is not to be held along with any other Scholarship,

Fellowship, or Bursary of the University of Glasgow. "The subjects of examination for the said Scholarship shall be, with the addition after-mentioned, Classics, or Mental Philosophy, or both of these, the special subjects being those for the examination for the M.A. degree with Honours in the given department or departments for the year, and in addition to the examination above mentioned the competitors for the said Scholarship shall undergo an examination in English Literature of a higher kind than that required for an ordinary pass in Mental Philosophy." The Scholarship will be open to competition in October, 1894. The examination will be in Classics and in English Literature (not Language) from Chaucer downwards. Names of Candidates to be given in to Assistant Clerk (Matriculation Office) on or before 26th September, 1894.

*Scholar*—<sup>1</sup> Robert Baillie Douglas, M.A., 1892.

SHAW PHILOSOPHICAL FELLOWSHIP.—This Fellowship was founded by subscription in 1867, in the University of Edinburgh, in memory of Sir J. Shaw, Bart., who was born at Mosshead, in the Parish of Riccarton, and County of Ayr, in 1764, was elected Lord Mayor of London in 1805, and M.P. for the same city in 1806, and after a long and distinguished career, died in London in 1843; and is open to the competition of the Graduates in Arts of any of the Scottish Universities. The Fellowship consists of the free proceeds of the sum of £4,100 mortified to the Senatus Academicus of the University of Edinburgh under the following conditions, namely :—

1. The said Fellowship shall bear the name of "THE SHAW PHILOSOPHICAL FELLOWSHIP," in memory of the said Sir James Shaw, Baronet.

2. The Patronage of the said Shaw Philosophical Fellowship shall belong to the said Senatus Academicus, and shall be exercised by them, subject to the conditions herein contained, for the encouragement of the study of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.

3. The Fellowship shall be awarded by competitive examination in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.

4. The Fellowship shall, on each occasion of an appointment thereto, be open to the competition of Graduates in Arts of the Scottish Universities—that is to say, the University of Edinburgh, the University of Glasgow, the University of Aberdeen, and the University of St. Andrews, of not more than five years' standing at the time of the competition, and of all students of the said Scottish Universities who, although they have not graduated in Arts, shall yet have successfully passed the last of the examinations necessary

<sup>1</sup> Vacant through lapse of time.



for such graduation in Arts, within the period of five years before the time of the competition; and the said Senatus of the University of Edinburgh, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the University of Edinburgh, shall have power either to increase or to reduce the number of years of standing as graduates, or as students who have passed all the examinations necessary for graduation, as above fixed, for competitors for the Fellowship.

5. The Fellowship shall be tenable for five years only, but the said Senatus Academicus of the University of Edinburgh shall have power, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the said University of Edinburgh, to extend, with reference to all holders of the Fellowship, the term of tenure to any period of years not exceeding ten, if, in the course of time, it shall appear to them desirable to do so, from an increase in the number of foundations of a similar kind in the University of Edinburgh, or in the other Scottish Universities, or other sufficient reason.

6. The competitive examination for the said Fellowship, shall, except in the case below provided for, be conducted by two Examiners, to be appointed in the manner following—to wit, one of the Examiners shall be appointed by the Senatus Academicus of the University of Edinburgh, either from among the members of the said Senatus or others, as they may think proper, and the other Examiner shall be appointed by the Senatus Academicus of one of the other Scottish Universities in rotation.

7. The said Examiners, so appointed, shall report their opinion of the result of the examination to the Senatus Academicus of the University of Edinburgh, who shall, as Patrons of the said Fellowship, appoint thereto the candidate who appears by the report to be best qualified by proficiency in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy, provided that, as required by the clause next following, such best qualified candidate shall, in the opinion of both the Examiners, have manifested a sufficiently high degree of proficiency to merit the Fellowship.

9. Each holder of the said Fellowship shall, during his tenure thereof, be entitled to receive the annual proceeds of Four Thousand One Hundred Pounds, and of any addition of the said sum which may hereafter be made thereto, as after-mentioned, after deducting all reasonable expenses, including the payment of remuneration to the Examiners appointed as aforesaid.

12. It shall not be competent for any person to hold the said Fellowship along with any other Fellowship, Scholarship, or Bursary,



in any Scottish University, or appropriated to the students of any Scottish University or Universities.

17. It shall be in the power of the Senatus Academicus of the University of Edinburgh to require the holder of the Shaw Philosophical Fellowship during the fourth or fifth year of his tenure of it, to deliver in the University of Edinburgh a Course of Lectures, not exceeding four, on any of the subjects for the encouragement of the study of which the Fellowship has been founded ; and notice shall be given to the holder of the Fellowship twelve months previously to the time fixed for the delivery of the said Lectures that he is required to deliver them ; but the said Senatus, with consent of the University Court of the University of Edinburgh, shall have power to alter the number of Lectures, if it shall be found desirable to do so.

*Present Fellow*—Henry Barker, M.A. (of Edinburgh University), 1893.

SNELL EXHIBITIONS.—In the year 1677, Mr. John Snell of Uffeton, in the County of Warwick, a native of Scotland, and formerly student in this University, devised to trustees a considerable estate near Leamington, in Warwickshire, for educating Scottish students at Oxford.

The Exhibitioners are now elected under a scheme settled in the Court of Chancery in 1872. Under the provisions of this scheme it was then arranged that the number of Exhibitioners should be limited to fourteen, it being lawful to elect three in each year, unless the number on the Foundation should thereby be increased beyond fourteen, in which case not more than two were to be elected, the Exhibition being tenable for five years ; but by an agreement of date 2nd April, 1878, under provisions of the same scheme, the following regulations were sanctioned :—

1. The stipend of each Exhibitioner admitted to the foundation after the 31st day of December, 1878, shall be £132.

2. Until the 31st day of December, 1880, the greatest number of Exhibitioners shall be twelve.

3. During the year from the 31st day of December, 1880, to the 31st day of December, 1881, the greatest number of Exhibitioners shall be eleven.

After the 31st day of December, 1881, the greatest number of Exhibitioners shall be ten.

The number of ordinary Exhibitioners it shall be lawful to elect in each year shall be three, unless the number on the foundation for the time being would be thereby increased beyond the greatest number for the time being permitted by this agreement, in which case not more than two shall be elected.

By a subsequent agreement of date 21st January, 1886, the following modifications were made:—

1. The value of the Snell Exhibitions shall be reduced to £80 a year.

2. They shall be held, as heretofore, for five years, but the whole sum of £400 will be paid to each Exhibitioner during the first three years of his tenure in equal annual sums, but a moiety of the last annual payment shall be kept back, if the authorities of Balliol College think fit, until the Exhibitioner shall have taken his Degree.

Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must “have resided<sup>1</sup> as Undergraduate Students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland.” “No candidate shall be admitted to examination who shall be a member of the University of Oxford of more than one year’s standing from the day of his matriculation inclusive; and no candidate shall be admitted to examination more than once after he shall have completed his 23rd year; but a candidate otherwise qualified shall not be excluded from examination on the ground that he is a graduate of any Scotch University.”

Candidates are expected to inscribe their names in a book kept at the Clerk of Senate’s Office for the purpose, not later than 1st December, 1894. The next examination will be held in March and April, 1895, on the same days and at the same hours as the Examinations for the Degree of M.A. with Honours, the English paper being taken on Saturday, 30th March, at 9 A.M.

The subjects of examination are as follows:—

IN LATIN, GREEK, LOGIC, AND MORAL PHILOSOPHY.—The subjects of examination for the Degree of M.A., with Honours.

IN NATURAL PHILOSOPHY AND MATHEMATICS.—The subjects of examination for the Ordinary Degree of M.A., and higher subjects which any candidate may express a wish to be examined in.

Candidates are requested to take notice that they are not required to attend the examination in more than one of the three departments of the examination, viz.: Classics, Mental Philosophy, Mathematics; that a candidate may be appointed for decided excellence in any one department alone; and if such excellence in some one of the departments be not displayed by three of the candidates, the Senate will either appoint a candidate who has shown sufficient proficiency in several departments, or will abstain from making three appointments. All candidates, however, will

<sup>1</sup> By Resolution of date December 13th, 1866, the Senate determined that “Residence” shall, for the purpose of the Snell Trust, be constituted by regular attendance as a public student for the complete Winter Session on not less than two of the classes in the curriculum for the Degree of Arts.

be required to write an English Essay on a subject prescribed at the time.

*Exhibitioners*—John E. M'Fadyen, 1890; George D. Brown, 1891; Edward H. Wallace, 1893; William Gow, 1894.

THOMSON EXPERIMENTAL SCHOLARSHIPS.—Three Scholarships, in value about £20 each, for the promotion of Experimental Research, founded by Sir William Thomson (now Lord Kelvin), LL.D., D.C.L., Professor of Natural Philosophy in the University, by letter to the Principal, of date September 6th, 1869, in which, after referring to "the liberal and friendly spirit which had been shown him by his colleagues in respect to his connection with telegraphic enterprise," and the "facilities for experimenting which the College had afforded him," he states that "he wished to mark his sense of these benefits by setting aside something of what he had received to assist in promoting the cultivation of experimental investigation in Glasgow University," and for this purpose offered for the acceptance of the Senate the sum of £1,000.

The scholars are appointed by the Senate on the recommendation of the Professor of Natural Philosophy from among students who have previously shown their zeal and ability in Experimental Investigations in the Physical Laboratory, and they are required to engage in the continual prosecution of Experimental Investigations in the Laboratory for not less than nine months of the year, to the satisfaction of the Professor of Natural Philosophy. These Scholarships may be held along with any other Bursary, Scholarship, or Fellowship.

*Scholars for 1894*—August Dittmar, John Gray, B.Sc., Patrick Hamilton, B.Sc.

TRAVELLING SCHOLARSHIP FOR BIBLE LANDS, INCLUDING GREECE.—This Scholarship, of the value of £150, will be open for competition in September 1894 to all Graduates in Arts who have in March or April of the current year completed either their second or third Session of Study in the Divinity Hall of any Scottish University, with a view to the ministry of the Church of Scotland. The holder will be required to leave in October for the East, and to spend (1) not less than three months in Greece, devoting there the main part of his attention to the living language of the country; and (2) not less than six months in Syria and Egypt, devoting special attention to the study of Arabic during this period.

The subjects of examination will be (1) Classical and New Testament Greek; (2) Hebrew; (3) a prescribed portion of Early Church History; (4) some work or works on Bible Archaeology and Egyptian History. Details of the examination and conditions of tenure were intimated in the May number of the Church of Scotland *Mission Record*.

## 3.—PRIZES.

Besides the class Prizes, and a number of Prizes given by the different Professors for particular kinds of merit, there are others which the generosity of public spirited individuals has founded for the encouragement of learning in the University.

The names of the Prizemen for Session 1893-94 will be found in the Degree and Prize List.

## INDEX.

FOUNDATION.	NATURE OF PRIZE.	AWARDED FOR
Arnott, - - - - -	£25 and £15,	Examinations.
Brunton Memorial, -	£10,	Do.
Buchanan (3), - - -	Books,	Do.
Cleland, - - - - -	Gold Medal,	Essay.
Coulter, - - - - -	Two at £5 each,	Essays.
Cowan (3), - - - - -	Gold Medals,	Examinations.
Cunninghame, - - -	Gold Medal,	Do.
Dobbie-Smith, - - -	Gold Medal (biennial),	Essay.
Dowanhill, - - - - -	£21 and £10 10s.,	Elocution.
Ewing, - - - - -	Gold Medal (biennial),	Essay.
Findlater, - - - - -	£38,	Examination.
Gartmore, - - - - -	Gold Medal (biennial),	Essay.
Gladstone Historical, -	£21 (biennial),	Examination.
Harvey, George, - - -	£20,	Do.
Henderson, - - - - -	£21,	Essay.
Jamieson, - - - - -	£10,	Examination.
Jeffrey, - - - - -	Gold Medal,	Do.
Kirk Memorial, - - -	£12,	Do.
Thomas Logan Memorial	Gold Medal and £12,	Do.
Luke Historical, - - -	£10 (biennial),	Do.
Macfarlan and Cook, -	£21,	Do.
Muirhead, - - - - -	Books,	Do.
Rae Wilson, - - - - -	Gold Medal.	Essay.
Reid, John, - - - - -	£25,	Original Research.
Ross, Robert (2), - - -	Med., books, or money,	Examinations.
Scott-Macfarlan, - - -	Gold Medal,	Examination.
University, - - - - -	Silver Medal,	Essay.
Walker (4), - - - - -	Books, &c.,	Examinations.
Watt, - - - - -	£10,	Essay.

ARNOTT PRIZES.—Founded in 1869, by Dr. Neil Arnott, of London, who presented to the Senate the sum of £1,000 to found a Prize, or Prizes, for the encouragement of the study of Natural Philosophy among the Medical students of the University.

By resolution of the Senate, of date April 10, 1873, the following regulations were adopted :—

1. That there shall be two separate examinations—one in General Physics, for students of the first and second years of their Medical

studies; the other for students of the third and fourth years, in Physiological Physics, or the application of the doctrine of General Physics to Physiological Science.

2. The knowledge required for the second of these examinations being much more extensive, and of a much higher order than that required for the first, and being the kind of knowledge of which it is most important to encourage the cultivation, as not only useful in the practice of the Medical Art, but eminently fitted to advance the Physiological Sciences; that a sum of not less than Twenty-five pounds be offered annually, in one or several sums, as circumstances may require, to the student or students who excel in the second examination.

3. That the remaining portion of the revenue derived annually from Dr. Arnott's donation be offered in the same way to the student or students who excel in the first examination.

4. That the first examination be under the superintendence of the Faculty of Arts, with the Professors of Physiology and of Anatomy as Assessors.

5. That the second examination shall be under the superintendence of the Medical Faculty, with the Professors of Natural Philosophy and of Mathematics as Assessors.

6. That all candidates shall, at the commencement of each session, intimate their intention to the Assistant Clerk (Matriculation Office); and that, to prevent unqualified persons from coming forward, each candidate shall produce satisfactory evidence of his having attended a Course of Lectures on Natural Philosophy, or of having been a pupil in a Laboratory where Practical Physics or Practical Physiology is taught; or, failing of these qualifications, he shall deposit the sum of ten shillings, which shall be forfeited if his examination marks fall below the average standard.

7. That every candidate who passes creditably the first examination shall be thereby entitled to come forward for the second, without being obliged to deposit the sum of ten shillings.

8. That no prize shall be awarded without sufficient merit being shown, and that in the event of one or more of the prizes on any occasion not being awarded, the amount shall be added to the principal sum.

The examination will be in writing, and will be held on Saturday, the 13th October, 1894, in the Examination Hall, at 2 P.M. Intending candidates to give in their names to the Assistant Clerk (Matriculation Office) on or before 26th September.

BRUNTON MEMORIAL PRIZE.—Founded in 1879, in memory of the late Duncan M. Brunton, M.A., M.B., Paisley, a distinguished graduate of this University, who died on 16th November, 1876, of fever, contracted in the diligent discharge of his professional duties in the Royal Infirmary of Paisley. The Committee of Subscribers



paid over to the Senate the sum of £300, the interest of which is to be given annually to the most distinguished graduate in Medicine of the year.

**BUCHANAN PRIZES.**—A Bursary was founded in 1866, in recognition of the eminent services of Robert Buchanan, LL.D., as Professor of Logic and Rhetoric in the University during the long period of forty years. The fund consists of a sum of £314 raised by subscription. The Buchanan Bursaries having been founded under the Will of Professor Buchanan, the proceeds of this fund are now, with the sanction of the subscribers, applied to the purchase of books, which are annually awarded to the most distinguished students in the classes of Logic, Moral Philosophy, and English Literature.

**CLELAND GOLD MEDAL.**—Dr. James Cleland, Superintendent of Public Works in Glasgow, who died 14th October, 1840, founded a Gold Medal of the value of Ten Guineas, to be bestowed in alternate years on a student of Divinity, and a student of Natural Philosophy, as a prize for the best Essay on any subject to be prescribed by the Principal and Professors of the University.

**COULTER PRIZES.**—In 1787, Mr. James Coulter, merchant in Glasgow, bequeathed £200 to the University, "the annual proceeds to be applied in premiums, one or more, either pecuniary or honorary, for the encouragement of Composition and Elocution, upon subjects of the Faculty's choosing." The interest of this sum is now divided into Two Prizes of £5 each; the one to be given in alternate years for a Sermon or Theological Essay, and for an Essay on Mental Philosophy and English Literature, the other to be given annually for a translation from some Classical Author, or other composition connected with Classical Literature. The competition for these prizes is open to all students of the University.

**COWAN GOLD MEDALS.**—In 1836, Dr. Cowan of Sunderland presented to the University the sum of £400, the interest to be applied annually in the purchase of Two Gold Medals of the value of about £10 each, to be awarded to the two students who may distinguish themselves most in the Greek and Latin Examination upon the Blackstone; and shortly afterwards (1839) the same gentleman presented the University with an additional sum of £105, the interest to be expended annually in the purchase of a Gold Medal of the value of £5, to be awarded to the best student in the Humanity Class.

The examination for Dr. Cowan's Blackstone Medals will be held early in November, 1894. Competitors to be eligible must be public students in some curriculum class in the Faculty of Arts.

For the Greek Medal—1. A candidate must have received a Certificate in the Greek Class for session 1893-94.



2. Every candidate will be required to answer a Preliminary Paper, consisting of unprepared passages for translation.

3. Two or more candidates, selected by this paper, will on a subsequent day be examined orally in the books which they offer.

4. Each selected candidate must offer for the Oral Examination (i.) one Verse Subject, (ii.) one Prose Subject. (i.) The Verse Subject must be *either* five books of Homer, *or* two Greek plays (tragedies or comedies). (ii.) The Prose Subject may be any *one* of the following :—(a) Herodotus—two books ; (b) Thucydides—two books ; (c) Plato—two dialogues, or two books of the *Republic* ; (d) Aristotle—two books of the *Ethics*, or of the *Politics*, or of the *Rhetoric*.

5. Any member of the Greek Class for session 1894-95 is at liberty to go in for the Preliminary Paper, even though he is not a candidate for the Cowan Medal ; and if he acquits himself with distinction in that paper, his name will be mentioned when the award of the Medal is announced.

For the Latin Medal, competitors must in the session preceding the competition have received a public ticket of the Latin Class.

Notice is hereby given, that at the examination for Dr. Cowan's Medals in November, 1892, and thereafter, no one will be admitted to compete for the Greek Cowan Medal who has attended for more than three sessions, or who, after passing the preliminary examination in Greek, has attended for more than two sessions in any Scottish University, and no one shall be admitted to compete for the Latin Cowan Medal who has attended for more than two sessions, or who, having been admitted to the Senior Class in consequence of having passed the preliminary examination in Latin, has attended for more than one session in any Scottish University.

CUNNINGHAME GOLD MEDAL.—In 1886, Mr. Andrew Cunningham, Town Clerk Depute of Glasgow, bequeathed to the University, *inter alia*, £350, free of legacy duty, with directions that the annual revenue thereof should be applied in purchasing a Gold Medal as a prize in the class of Mathematics.

DILL PRIZE.—A sum of £25 was presented to the Medical Faculty in 1893 by the late Professor Robert F. Dill, of Belfast (M.D. Glasgow, 1834), as evidence of his desire to promote the interests of the University and Medical School, by offering a prize for the best Thesis among those awarded "Honours" or "Commendation" from June, 1893, to the graduation of July, 1896.

DOBBIE-SMITH GOLD MEDAL.—In 1881, Mr. Thomas Smith, L.R.C.S.E., Heriot Hill House, Edinburgh, presented to the University, in memory of his wife, lately deceased, the sum of £150 for the purpose of founding a University Gold Medal of about £10 in value, to be given biennially for the encouragement of the study of Botany. The competition is open to all Matriculated Students of the session

in which the Medal is to be awarded; the subject of competition—which shall always be a Botanical subject—to be selected by the Professors of Botany and Natural History, and announced at least eighteen months before the date fixed for receiving essays.

The subject for the next competition to be an Essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the essay to be accompanied by an illustrative series of macroscopic and microscopic specimens. Essays to be given in to the Principal on or before 14th November, 1894.

**DOWANHILL PRIZES.**—Two prizes, one of £21, and the other of £10 10s., for “Excellence in the Art of Oratory and Declamation, and in the practice of a refined and pleasing Delivery, and in reading the Scriptures,” founded in 1865, by Mr. John Buchanan, merchant in Glasgow, as sole Trustee, nominated and appointed by his deceased brother, Mr. Thomas Buchanan, also merchant in Glasgow, and in order to carry out the intentions of his said brother. These prizes are awarded annually to Students of Divinity, at the termination of the third or fourth session of their attendance on the Hall, by the votes of their fellow-students. Competitors must have attended for two sessions an Elocution Class, taught by a master approved by the Senate.<sup>1</sup>

The above foundation is in memory of the late Mr. James Buchanan, of Dowanhill, of Ellison MacCallum, his wife, and of Mr. George Buchanan, of Stanley, Perthshire, the Father, Mother, and elder Brother of the Founder.

**EWING GOLD MEDAL.**—In 1828, James Ewing, LL.D., of Levenside, presented the University with £100 for a Gold Medal to be given every second year for the best essay on an historical subject. The Gartmore and Ewing Medals are to be given alternately.

**FINDLATER (DIVINITY) SCHOLARSHIP OR PRIZE.**—This Scholarship, consisting of the free annual proceeds of the sum of £1,000 gifted to the Senate by Mr. Alexander Findlater, Dublin, was founded in 1871. The following regulations have been adopted by the Senate :—

1. The Findlater Scholarship shall be awarded annually by competition.

2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.

The next competition will take place in November, 1894, and

<sup>1</sup> See note under Faculty of Theology, *supra*.

March, 1895. Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 26th October, 1894.

**GARTMORE GOLD MEDAL.**—In 1788, Mr. Robert Graham, of Gartmore, presented the University with £100 for the institution of a Prize for the best essay on any subject intimately connected with the nature, foundation, advantages, and support of political liberty. This Prize—a Gold Medal—is open to the competition of all students of the University, and is given biennially. The surpluses to be accumulated till a capital is formed sufficient to found a Bursary.

**GLADSTONE HISTORICAL PRIZE.**—Founded in 1880 by the Gladstone Club, in commemoration of the election in 1877 of the Right Honourable William Ewart Gladstone, M.P., as Lord Rector of Glasgow University, and in recognition of his distinguished career as a scholar, author, statesman, and orator. The following are the regulations:—

1. The prize shall be given for the best examination in English History.

2. The examination shall be held biennially.

3. The value of the Prize shall be Twenty Guineas.

4. The competition shall be open to Graduates of Glasgow University of not more than two years' standing from the date of their first graduation. The sixth competition will take place in January, 1896. Names of competitors to be given in to the Assistant Clerk (Matriculation Office) not later than 1st December, 1895.

**GEORGE HARVEY PRIZE.**—Founded in 1874, by the liberality of a donor who has withheld his name, in memory of the late Mr. George Harvey, of No. 9 Park Quadrant, Glasgow. Annual value, ordinarily £20, which is given as a prize in the class of Civil Engineering, to the student who shows, during the session, the greatest proficiency in the department of applied Mechanics and Shipbuilding. Any accumulation of surplus income to be given as a second prize of £5 or £10 in the same department.

**HENDERSON PRIZE.**—In 1850, Mr. John Henderson, of Park, merchant in Glasgow, instituted an annual prize of the value of £21 sterling, to be called the "Henderson Prize," for the best Essay on some subject relating to the Divine Authority and Practical Value and Influence of the Sabbath.

**JAMIESON PRIZE.**—In 1854 a subscription list was opened for the foundation of a prize or scholarship in Divinity, but the commercial difficulties of the following years prevented the purpose of the promoters being carried out at the time. In 1881 the sum subscribed, amounting, with accumulated interest, to £319 6s. 4d., was handed over to the University, and the Senate resolved to connect it with the name of the Convener of the Committee of subscribers, the Rev.

Robert Jamieson, D.D., formerly minister of St. Paul's Church, Glasgow.

The following regulations have been adopted by the Senate :—

1. The Jamieson Prize shall be awarded annually by competition.
2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.
3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.
4. The Prize shall not be awarded to any one who has gained a Scholarship or Fellowship in Divinity.

The next competition will take place in November, 1894, and March, 1895. Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on or before 26th October, 1894.

**JEFFREY GOLD MEDAL.**—Mr. Francis Jeffrey, advocate (afterwards Lord Jeffrey), on his re-election as Lord Rector of this University, in 1821, gave a prize of a Gold Medal, and continued to do so annually.

In 1849, Lord Jeffrey presented the University with the sum of £120 for a Gold Medal to be awarded each session to the most distinguished student of the Greek Class.

**KIRK MEMORIAL PRIZE.**—A sum of £402 was collected in 1893 by various friends of the late Alexander Carnegie Kirk, LL.D., formerly President of the Institution of Engineers and Shipbuilders in Scotland, for the purpose of founding a prize in his name, in connection with the Naval Architecture Class in the University. The free annual income of the foundation is awarded annually as a prize. The competition is open to students who have, in the session of competition, attended the Senior Class of Naval Architecture, and who are completing the Final Science Examination under Ordinance No. 23, Glasgow No. 2, embracing (a) Naval Architecture with Marine Engineering, and (b) Practical Work in Ship and Marine Engineering Drawing, the award being determined by the proficiency shown in (a) and (b). Should two or more candidates be reported equal, the Senate may divide the Prize, or prescribe a further examination. The subscribers have given the Senate power to convert this Prize into a Bursary, should it be found expedient or advantageous to do so at any future time.

**THOMAS LOGAN MEMORIAL MEDAL AND PRIZE.**—Mr. David Logan, fruiterer, Glasgow, who died on 19th May, 1886, directed his trustees to pay to the Senate the sum of £500, free of legacy duty, to found a Gold Medal and Prize in memory of his brother, Thomas Logan. The Medal is of the value of £5, and the Prize consists of the balance of the annual proceeds given in money. They are

awarded annually in November to the most distinguished graduate in Arts of the year.

**LUKE HISTORICAL PRIZE.**—A sum of £150 was collected in 1863 by various friends of the late Mr. George Rankin Luke, in Oxford and Scotland, for the purpose of founding a prize in his name, in connection with the University of Glasgow, where he studied during two years of his brilliant career as a scholar.

The Senate, with the sanction of the promoters of this fund, resolved to employ it to found a biennial Prize, for excelling in a competitive examination on general subjects connected with Ancient History and Literature. The examination to be conducted either altogether in writing, or by combination of writing and *vivâ voce* questions; and the determination to rest with the Professors of Humanity and Greek, in conjunction, in case of uncertainty, with any one of their colleagues whom they may desire to nominate.

The Prize on the above foundation is given to the student who acquits himself best in an examination in Ancient Greek and Roman History.

The next competition will be held in January, 1895. In addition to historical questions, original passages will be given for translation from the standard authors. The competition is open to all students who shall have attended during session 1893-94 any Greek or Latin Class.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st December, 1894.

**MACFARLAN AND COOK TESTIMONIAL PRIZE.**—The Macfarlan and Cook Testimonial Prize of Twenty Guineas, instituted in 1847 (along with a similar Prize in the University of St. Andrews), by the friends of the late Principal Macfarlan, D.D., of this University, and Professor George Cook, D.D., of St. Andrews, as a memorial of the services rendered to the Church of Scotland by these eminent clergymen, is bestowed annually on the Theological Student, of three years' standing, who shall pass the best examination in Greek, Moral Philosophy, Hebrew, Ecclesiastical History, and Divinity.

**MUIRHEAD PRIZES.**—In 1776, Messrs. John Muirhead of Teggetsheugh, and Peter Muirhead, minister of Dysart, brothers of the deceased Mr. George Muirhead, Professor of Humanity in Glasgow College, presented a donation of £100, the interest to be applied in purchase of books to be awarded as prizes to those students attending the Humanity Class who shall be thought most deserving.

**RAE WILSON GOLD MEDAL.**—Dr. William Rae Wilson, of Kelvinbank, who died 2nd June, 1849, bequeathed the sum of £300, two-thirds of the interest of which he appointed to be applied annually to the purchase of a Gold Medal to be bestowed upon the Divinity



student who shall produce the best Prize Essay on "The Life of our Adorable Redeemer, Jesus Christ: His Righteousness, Atoning Death, and that Everlasting Benefit arising from these blessings to a lost and miserable world."

**JOHN REID PRIZE.**—A Prize of the value of £25 was founded in 1882 by Miss Mary Reid, Renfrew Street, Glasgow, in memory of her brother, the late Mr. John Reid, surgeon, 150 Renfrew Street, Glasgow. The prize will be awarded for the best original research conducted in one of the Hospitals or Scientific Laboratories in Glasgow, bearing on any department of Medical Science. The competition is open to registered students of medicine of not less than two years' standing; and to qualified medical men of not more than two years' standing, who (1) are still attached as *bonâ fide* students to one of the Glasgow Medical Schools, who (2) are not engaged in practice, and who (3) undertake to give up the prize if they enter on practice while holding it. All candidates are required to produce evidence of having attended a regular course of instruction, in one of the medical schools of Glasgow, on *four* of the following subjects:—Medicine, Clinical Medicine, Surgery, Clinical Surgery, Materia Medica, Physiology, Pathology—such course of instruction having been received, in whole or in part, within three years of competing for the prize. The prize may be awarded for one, two, or three years, according to the value of the work done.

Further information may be obtained from Mr. John Hurl, jun., writer, 121 West Regent Street, Glasgow, to whom competition papers must be sent on or before 31st October, 1894.

**ROBERT ROSS PRIZE.**—The late Robert Ross, Esq., writer, Glasgow, by his Will, dated 1880, bequeathed to the Dean and Council of the Faculty of Procurators, Glasgow, the sum of £500, to be held by them in trust, "to the end that the free annual income thereof shall be applied as an annual prize in the form of a medal, of books, or of money, as the Dean and Council may determine, to a student in each of the Scots Law Class and the Conveyancing Class of the University of Glasgow in equal proportions, such prize to be awarded for eminence displayed, either in the general business of the class or in any other manner in which the said Dean and Council may prescribe."

**SCOTT-MACFARLAN GOLD MEDAL.**—Founded in 1870, by Miss Scott, daughter of the late Rev. Robert Allan Scott, Vicar of Cranwell, Lincolnshire, in fulfilment of her father's intentions.

Mr. Scott, wishing to encourage the study of Greek in the University of Glasgow, of which he was an alumnus, and from which he obtained an Exhibition to Balliol College, Oxford, in 1825, dedicated to that purpose the sum of £100 for a Gold Medal, to be called the "Scott-Macfarlan Prize for Greek," in memory of Mr. Scott's kinsman, the late Principal Macfarlan, and to be given on



the last day of the session in each year to the best scholar in Greek of the session ; the medal to be adjudged by the votes of the students of the upper Greek class. As the Jeffrey Medal has long been given to the best student in the senior Greek Class, Miss Scott consented to give the "Scott-Macfarlan" Medal to the best student in the middle class.

UNIVERSITY MEDAL.—The University bestows annually a Silver Medal for an Essay in Mental Philosophy.

WALKER PRIZES.—Four Prizes (consisting of Books or Instruments) to be competed for each year by students of Civil Engineering and Mechanics, founded in 1857 and 1861 by James Walker, Esq., Civil Engineer, LL.D., F.R.SS.L. and E.

The competition is open to all persons who shall have duly entered themselves as attending the class of Civil Engineering and Mechanics during the current session.

The competitors are examined orally and in writing ; and two of the prizes are awarded on the results of the written examinations ; the other two by votes of the class.

WATT PRIZE.—In 1808, James Watt, LL.D., presented the College with a perpetual annuity of £10, for the institution of a prize, to be awarded to the author of the best Essay on some subject in the following branches of study, to be taken in rotation :—  
1. Any branch of Mechanics or its dependent Arts. 2. Statics, and the Machines and Arts dependent. 3. Pneumatics, Statical or Chemical, Machines and Arts. 4. Hydraulics, Hydrostatics, their Machines and Arts. 5. Chemistry, its Arts and Apparatus. All actual students who have completed, or who, at the end of the session in which the Prize is awarded, shall have completed a regular course of study in Languages and Philosophy, may be competitors.

#### 4.—*LIST OF BURSARIES, &c., OPEN TO COMPETITION DURING SESSION 1894-95.*

##### A.—FACULTY OF ARTS.

##### 1.—BURSARIES.

The greater number of the Faculty of Arts Bursaries in the patronage of the Senate are awarded in accordance with the results of the Annual Bursary Examinations held at the commencement of the Winter Session. The various open Bursaries are awarded, according to their respective values, to those who stand highest in the List published by the Examiners. In the case of Bursaries restricted to the inhabitants of particular localities, the competitors have to undergo the same examination as those competing for open Bursaries, and the Bursaries are awarded to those students among the qualified candidates who pass the best examination. The Faculty of Arts are ready to receive at the same time for examination candidates for any Local Bursaries who may be sent to them.

The Examination for these Bursaries is combined with the Preliminary Examinations in Latin, Greek, and Mathematics, and comprises papers in Latin and Greek Grammar and Syntax, Latin Prose Composition, translations of passages from ordinary Latin and Greek Authors, and Mathematics, together with questions to test general knowledge and facility of composition in English.

The competitors for all Arts Bursaries, for students entering the first or second session, are examined on the same set of papers; but the same standard of excellence is not expected from candidates for Bursaries for which the competition is restricted, as from candidates for open Bursaries; and in the case of Bursaries restricted to particular localities, or particular names or classes, students who show satisfactory knowledge of Latin and Greek Grammar, and of Arithmetic, with the Elements of Mathematics, will be considered to have done well enough to have a Bursary awarded to them.

##### FOR STUDENTS ENTERING THE FIRST SESSION IN ARTS.

1. *Brown Bursary*, annual value £6 13s. 4d., tenable for four years—open.
2. *Buchanan Bursary*, annual value £13, tenable for three years—open.
3. *Forfar Bursary*, annual value £30, tenable for four years—open.
4. *Foundation Bursary*, annual value £10, tenable for four years—open.
5. *General Council Bursary*, annual value £20, tenable for three years—open.

6. *Hastie Bursary*, annual value £25, tenable for four years—open.

7. *Scott Bursary*, annual value £25, tenable for four years—open.

8, 9, 10, 11, 12, and 13. *Six John Clark (Mile-end) Bursaries*, annual value £30 each, tenable for four years, for Protestant students, sons of Protestant parents.

14. *Barbour Kilbarchan Bursary*, annual value about £16, tenable for three years, open only to candidates not exceeding 18 years of age from Kilbarchan Public School.

15, 16, and 17. *Three Biggart Memorial Bursaries*, annual value £25 each, tenable for four years, for students preparing for the Ministry of the United Presbyterian Church.

18. *Brown-Paton Bursary*, annual value about £16, tenable for three years. Preference to natives of Loudon or Galston, whom failing, to natives of any other part of Ayrshire.

19. *Archibald Craig Bursary*, annual value £9, tenable for two years, for students who are natives of Eaglesham or Mearns, or who for two consecutive years have attended school in either of these parishes.

20. *Davidson Bursary*, annual value £40, tenable for three years. Preference, *ceteris paribus*, to the Founder's relatives, and to natives of Muirkirk, Dalserf, Lesmahagow, and London.

21. *Denny Bursary*, annual value £30, tenable for four years, for students from Dumbarton Burgh Academy. [Tenable in any Faculty.]

22. *Craig Bursary*, annual value £25, tenable for four years. Preference to kindred of Founder, and students of the name of Craig. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September.

23. *James Ewing Entrance Bursary*, annual value £20, tenable for four years, for sons of Glasgow merchants. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September.

24. *Merchants' House Bursary*, annual value £25, tenable for four years. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September.

25 and 26. *Two Fullarton of Overton Bursaries*, annual value £20 each, tenable for two years, for students under 25 years of age; from the district of Cunninghame, in Ayrshire. Subjects of Examination—Latin, Elementary Mathematics, and English.

27. *Hamilton Educational Trust Bursary*, annual value £15, tenable for three years, open to pupils attending public or State-aided schools in the burgh and parish of Hamilton. Apply to Mr. Patrick Keith, writer, Hamilton, before the first day of September.

28. *Hannay Bursary*, annual value about £15, tenable for three years, for students preparing for the Ministry of any Evangelical Religious Denomination in Scotland. Apply to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September.

29 and 30. *Two Glasgow City Educational Endowments Bursaries*, annual value £25 each, tenable for four years, for students from public

or State-aided schools in Glasgow. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

31, 32, 33, 34, and 35. *Five Hutchesons' Educational Trust Bursaries*, annual value £20 each, tenable for four years, for students who have attended two sessions in the secondary department of Hutchesons' Grammar School. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

36 and 37. *Two James Laing Bursaries*, annual value £25 each, tenable for four years, for those who have been educated for at least three years in a school or schools in Stirlingshire. Apply to Mr. William Jenkins, Writer, Denny, before the first day of September.

38. *James Lochhead Bursary*, annual value £16, tenable for three years, for students of the name Lochhead, whose parents are members of the Established Church of Scotland.

39. *Lusk Bursary*, annual value £20, tenable for three years, for students preparing for the ministry of any of the Presbyterian Churches of Scotland.

40, 41, 42, and 43. *Four Marshall Trust Bursaries*, annual value £30 each, tenable for five years, for students from public or State-aided schools in Lanarkshire or Stirlingshire. Apply to Mr. Wm. Mitchell, 134 Wellington Street, Glasgow, before the first day of September.

44. *James Paterson Bursary*, annual value £23, tenable for four years, for students preparing for the Ministry of the Baptist Church.

45. *Second Patrick Bursary*, annual value about £40, tenable for two years, for students from Renfrewshire.

46. *Glasgow Perthshire Society Bursary*, annual value £25, tenable for three years, for students connected with the County of Perth. Apply to Mr. George Gray, Writer, County Buildings, Glasgow, before the twenty-fifth day of August.

47. *Pollock Bursary*, annual value £40, tenable for three years. Preference to candidates educated in Paisley.

48 and 49. *Two Ramsay-Walker Bursaries*, annual value £12 each, tenable for four years, for students preparing for the Ministry of the Established Church of Scotland. Preference to kin of Founder; whom failing, to students of name of Walker; whom failing, to natives of Glasgow.

50. *Stewart Bursary*, annual value £15, tenable for four years, for students of the name Stewart or Simpson.

51. *William Whyte Bursary*, annual value £20, tenable for four years, open to students who have attended and completed the curriculum in the Secondary Department of Hutchesons' Grammar School. Apply to Messrs. Hill & Hoggan, 194 Ingram Street, on or before the first day of September. [Tenable also in Law or Medicine.]

52. *James Thomson Philosophical Bursary*, annual value £11, tenable for two years. The subject of examination is English Literature. Candidates must not have attended the Logic, Moral Philosophy, or English Literature Class, and must not have studied at any other Scottish University.

## FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.

Nos. 1, 3, 4, 5, 6, 7, 20, 22, 25, 26, 39, 50, 52, in the preceding list.

53. *Park General Council*, annual value £20, tenable for two years—open.

54 and 55. *Two James A. Paterson Bursaries*, annual value £40 and £20 respectively, tenable for three years, for students preparing for the Ministry of the United Presbyterian Church. The subjects of examination are Greek and Hebrew.

## FOR STUDENTS ENTERING THE THIRD SESSION IN ARTS.

56. *Lorimer Bursary*, annual value £25, tenable for three years. The examination will take place along with the preliminary examinations in Mathematics for M.A., but may embrace higher papers.

57. *Lorimer Bursary*, annual value £25, tenable for three years. Subjects of Examination—Professor Veitch's *Institutes of Logic, Part I.* (large print only); Descartes (English translation of 1879, or subsequent edition), *Introduction*, Sections I., II., III., IV., V., VI.; *Meditations*, I., II., III., IV.; Shaw's *English Literature* (Murray's Student's Manual), Chaps. IV., V., VI., VII., XI.; Shakespeare's *Julius Caesar*, as edited by Beeching (Longman's Falcon Series); Zeller's *Socrates and the Socratic Schools* (translated by Reichel), pp. 1—200.

## FOR STUDENTS IN ARTS, WITHOUT RESTRICTION TO A PARTICULAR SESSION.

58. *James Ferguson Bursary*, annual value £80, tenable for two years, Preference, *cæteris paribus*, to natives of Lesmahagow, or Muirkirk, or Pictou, Nova Scotia, and also to students of the name Ferguson or Weir, or to the kin of the Founder. The examination is the same as that for honours in the department of Mathematics and Natural Philosophy,

59. *Monteith Bursary*, annual value about £14, tenable for three years. Open only to natives of Scotland and sons of Scottish parents. Examination in German.

60. *Muir Junior Bursary in Mathematics*, annual value £9, tenable for sessions 1895-96, 1896-97. The appointment will be determined by the results of the written examinations passed in the course of the session 1894-95 by the public students of the second class of Mathematics.

61. *Muir Senior Bursary in Mathematics*, annual value £18, tenable for session 1895-96. The appointment will be determined by the results of the written examinations passed in the course of the session 1894-95 by the public students of the Intermediate Honours Mathematical Class.

## FOR STUDENTS IN ARTS, OR LAW, OR MEDICINE.

62. *Macdonald Bursary*, annual value £14, tenable for four years, for miners under the age of 21 years. Examination in writing, arithmetic, geography, grammar, and history.

For the William Whyte Bursary, see No. 51.



## 2.—FELLOWSHIPS, SCHOLARSHIPS, ETC.

63. *Scott Scholarship in Classics and English Literature*, annual value £80, tenable for two years. Open to Glasgow Masters of Arts of not more than three years' standing, having graduated with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Classics.

64. *John Clark (Mile-end) Scholarship in Classics*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

65. *George A. Clark Scholarship in Mental Philosophy*, annual value about £180, tenable for four years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the M.A. Degree with Honours in Mental Philosophy, but no student shall be eligible for the examination after the expiration of more than three winter sessions from the time of his completing the course necessary for the M.A. Degree.

66. *John Clark (Mile-end) Scholarship in Mental Philosophy*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

67. *William Euing Fellowship in Mental Philosophy*, annual value £80, tenable for three years. Open to Glasgow Masters of Arts.

68. *Eglinton Fellowship in Mathematics and Natural Philosophy*, annual value £100, tenable for three years. Open to Glasgow Masters of Arts who have graduated in April or November, 1894.

69. *John Clark (Mile-end) Scholarship in Mathematics and Natural Philosophy*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

70. *Breadalbane Scholarship*, annual value £50, tenable for three years. Open to Glasgow Masters of Arts or Bachelors of Science in the Department of Engineering Science who have graduated within a period of not more than three years preceding the competition.

71. *Sandford Scholarship*, annual value £20, tenable for two years. Open to all matriculated students (not Masters of Arts), who have attended the Public Greek Classes for not less than two sessions.

72. *Snell Exhibition*, value about £133 a year, tenable for three years. Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided as undergraduate students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland."

73. *Armagh Bursary*, annual value £25, tenable for three years. Open to Masters of Arts in their first session of Theology, Law, or Medicine. The most distinguished graduate in Arts of the year, who offers himself as a candidate, is appointed by the Senate.

74. *Luke Historical Prize* of £12, open to all students who have attended during session 1893-94 any Greek or Latin class.

75. *Thomas Logan Memorial Medal and Prize* will be awarded in November to the most distinguished graduate in Arts of the year.



## DATES OF EXAMINATIONS.

The examinations for Bursaries Nos. 1 to 51 and 53 in the above list, will commence on Saturday, 29th September, at 9 a.m. The examination papers will be given in the following order, viz.:—

On Saturday, 29th September,	9—11 a.m.,	English (1st paper).
„ „ „	12— 2 p.m.,	English (2nd paper).
„ „ „	3— 6 p.m.,	Lower Greek.
On Monday, 1st October,	9—12 noon,	Lower Latin.
„ „ „	2— 5 p.m.,	Lower Mathematics.
On Tuesday, 2nd „	9—11 a.m.,	Higher Latin (1st paper).
„ „ „	12— 2 p.m.,	Higher Latin (2nd paper).
On Wednesday, 3rd October,	9—11 a.m.,	Higher Greek (1st paper).
„ „ „	12— 2 p.m.,	Higher Greek (2nd paper).
On Thursday, 4th „	9—11 a.m.,	Intermediate and Higher Mathematics.
„ „ „	12—1.30 p.m.,	Do.

The examination for Bursary No. 52 will be held on Friday, 19th October, at 10 a.m.; for Bursaries Nos. 54 and 55, on Thursday, 1st November, at 10 a.m., and Friday, 2nd November, at 2 p.m.; for Bursary No. 56, on Thursday, 4th October, at 9 a.m. and 12 noon; for Bursary No. 57, on Wednesday, 17th October, at 10 a.m. and 2 p.m.; for Bursary No. 58, on Friday, 12th October, at 10 a.m. and 2 p.m., and on Saturday, 13th October, at 10 a.m. and 2 p.m.; for Bursary No. 59, on Wednesday, 3rd October, at 3 p.m. The examinations for the Bursary No. 62 will be held in October, on days to be announced hereafter.

The examinations for the Scholarships and Fellowships, Nos. 63 to 70 inclusive, in the above list, will be held along with the examinations for Honours in the several departments for the Degree of M.A., in October, 1894; for No. 71 in April, 1895; for No. 72, along with the examinations for Honours, in March and April, 1895, the English paper being taken on Saturday, 30th March, at 9 a.m.; and for the Prize No. 74 in January, 1895.

## DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursaries Nos. 1 to 56 inclusive and No. 62 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Thursday, 13th September; and for Bursaries Nos. 57 to 59, not later than Wednesday, 26th September. A schedule, which is to be filled up by each candidate, may be obtained from the Assistant Clerk (Matriculation Office). Candidates for the Bursaries Nos. 22 to 24 must, besides, give in their names to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September; for No. 27, to Mr. Patrick Keith, Writer, Hamilton; for No. 28, to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September; for Nos. 29 to 35, to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September; for Nos. 36 and 37, to Mr. William Jenkins, Writer, Denny, before the first day of September; for Nos. 40 to 43, to Mr. William Mitchell, 134 Wellington Street,

before the first day of September; and for No. 51, to Messrs. Hill & Hoggan, 194 Ingram Street, before the first day of September.

Candidates for the Fellowships, etc., Nos. 63 to 70 inclusive, are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 26th September; for No. 71 on 10th March, 1895; for No. 72 candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than the 1st December, 1894; and for Nos. 73 and 74, candidates are required to send their names to the Assistant Clerk (Matriculation Office), on 1st December, 1894.

## B.—FACULTY OF SCIENCE.

*Open to Competition during Session 1894-95.*

1. *George A. Clark Scholarship in Natural Science*, annual value about £180, tenable for two years. Open to Glasgow Bachelors of Science in Pure Science, or students presenting themselves for the final examination for the B.Sc. Degree in Pure Science, but no student shall be eligible for the examination after the expiration of more than three winter sessions from the time of his completing the course necessary for the B.Sc. Degree.

2. *Breadalbane Scholarship*—see No. 70 under Faculty of Arts.

3 and 4. *Two Metcalfe Bursaries* each of annual value £25, tenable for two years. Open to students entering the class of Chemistry or of Intermediate Honours Mathematics.

5. *Lloyd's Register Scholarship*, annual value £50, tenable for three years. Open to Candidates intending to become students of Naval Architecture, whose age does not exceed 23 years.

6 and 7. *Two Muir Bursaries in Civil Engineering and Mechanics*, each of annual value £12 10s., tenable for session 1895-96.

The Examinations for Scholarship No. 1 will be held at the same time as the Examinations for B.Sc. in October, 1894; and for Nos. 2 to 5 on Friday, 12th October, and Saturday 13th October, at 10 a.m. on each day. Names of Competitors to be given in to the Assistant Clerk (Matriculation Office), for No. 1 on 20th September, and for Nos. 2 to 5 on 26th September.

For the Robert Donaldson Scholarship, 1851 Exhibition Science Scholarships, George Harvey Prize, and Kirk Memorial Prize, see pages 252, 256, 273, and 274 respectively.

## C.—FACULTY OF DIVINITY.

*Open to Competition during Session 1894-95.*

1. *Black Bursary*, annual value £42, tenable for three years. Open to students of Theology of the first year holding a Degree in Arts of any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

2. *Brown or Ettles Bursary*, annual value £21, tenable for three years.

Open to students of Theology of the first year who have passed all the examinations for graduation in Arts, with a preference, *ceteris paribus*, to such as can speak Gaelic.

3. *Hastie Bursary*, annual value £25, tenable for three years. Open to competition to Masters of Arts of any Scottish University entering upon their first or second year in Divinity.

4. *Lorimer Bursary*, annual value £25, tenable for three years. Open to students entering the Divinity Hall.

5. *Lumsden Bursary*, annual value £15, tenable for four years. Open to students of Theology of the first year, with a preference to the sons of members, or of deceased members, of the Stationers' Company of Glasgow.

6. *James Macfarlane Bursary*, annual value £36, tenable for three years. Open to students entering upon the study of Divinity, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any two departments for graduation in Arts, with a preference to the name Macfarlane.

7. *Matthew A. Muir Bursary*, annual value £36, tenable for three years. Open to Students of Divinity of the first year who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any two departments for graduation in Arts.

8. *William Muir Divinity Bursary*, annual value £25, tenable for two years. Open to candidates who have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, not later than 20th October.

9. *Black Theological Fellowship*, annual value £147 or thereby, tenable for one year. Open to Masters of Arts from any of the Universities of Scotland who shall complete the ordinary curriculum of Theological study in the University of Glasgow in 1895.

10. *The Findlater Scholarship Prize*, value about £38 sterling, for examination in the subjects for the Degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in 1895.

11. *The Jamieson Prize*, value about £10 sterling, for examination in the subjects for the Degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in 1895.

12. *The Macfarlan and Cook Testimonial Prize*, of £21, open to Theological students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

13 and 14. *Two Dowanhill Prizes*, one of £21, and the other of £10 10s., for Elocution. Open to students of Divinity of the third year.

#### DATES AND SUBJECTS OF EXAMINATIONS.

The Examinations for Nos. 1 to 8 inclusive, in the above list, will be held on Thursday, 1st November, and Friday, 2nd November, at 10 a.m. each day; and for Nos. 9 to 11 on Thursday, 1st November, Friday, 2nd November, Thursday, 28th March, and Friday, 29th March, at 10 a.m. each day.

The following are the subjects of examination for Bursaries Nos. 1 to 8:—

LATIN.—Cicero, *De Officiis*, Book I. Horace, *Ars Poetica*. Translation from English into Latin.

GREEK.—Plato, *Republic*, Book I. The Second Epistle to the Corinthians.

LOGIC.—Jevons, *Elementary Lessons in Logic*.

MORAL PHILOSOPHY.—Sidgwick, *Outlines of the History of Ethics*—Introduction and Chapters I., II., and III.

ENGLISH.—Morley, *First Sketch of English Literature*, Chapter VII. A short essay will be prescribed.

MATHEMATICS.—Euclid, Books I., II., III. Algebra, to Quadratic Equations, inclusive.

NATURAL PHILOSOPHY.—Balfour Stewart, *Elementary Physics*, Books I., II., V., and VI.

The subjects of examination for Nos. 9, 10, and 11 are the same as for the Degree of Bachelor of Divinity.

The subjects of examination for the Prize No. 12 for Session 1894-95 are as follows:—

GREEK.—Luke viii. 4-xviii. 14. Sophocles, *Antigone*.

DIVINITY.—Doctrine of the Image of God in Man. Biblical Theology.

—Pauline Doctrine of Law, of Sin, and of Justification.

HEBREW.—First Book of Samuel (Text and Exegesis); Book of Hosea and Psalms lxxiii.-lxxxix. (Text, Exegesis, and Introduction).

CHURCH HISTORY.—Mediaeval Period (1054-1517).

MORAL PHILOSOPHY.—Ferrier, *Lectures on Greek Philosophy*.

#### DATES FOR SENDING IN APPLICATIONS.

Candidates for Nos. 1 to 11 inclusive are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 26th October, 1894; for the Prize No. 12, to the Professor of Divinity not later than 15th November, 1894; and for the Prizes Nos. 13 and 14, to the Professor of Divinity, not later than 20th March, 1895.

For the Armagh and the James Ferguson Bursaries, also tenable by students of Divinity, see Nos. 73 and 58 under Faculty of Arts.

#### D.—FACULTY OF LAW.

*Walkinshaw Young Bursary*, annual value £18, tenable for two years, open to students who since 1st December, 1892, have at an examination in Arts, for the Degree of B.L., passed in two Arts subjects, or have passed a Departmental Examination for the Degree of M.A. Applications to be lodged with the Clerk of Senate on or before 1st December, 1894.

*Major Young's Fund Bursary*, annual value £20, tenable for two years, open to students of the first year in Law. Candidates are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Thursday, 13th September, 1894.

*Andrew Cunninghame Scholarship*, annual value about £32, tenable for two years, will be awarded in November, 1894, to the most distinguished Bachelor of Laws of the year, special consideration being given to eminence in Conveyancing.

For the William Whyte, the Armagh, the James Ferguson, and the Macdonald Bursaries, also tenable by students of Law, see Nos. 51, 73, 58, and 62 under Faculty of Arts.

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## E.—FACULTY OF MEDICINE.

1. *Mackintosh Bursary*, annual value about £30, tenable for one year, open to medical students who have attended the Lectures on Insanity.

2. *Lorimer Bursary*, annual value £25, tenable for three years, open to medical students entering on their second session.

3. *Rainy Bursary*, annual value £20, tenable for two years, open to students entering on their third session of medical study.

4 and 5. *Two James A. Paterson Bursaries*, annual value £30 and £15 respectively, tenable for four years, open to students entering on their second session of medical study. Examination in Mathematics and Natural Philosophy.

6. *John Monteith Bursary*, annual value about £20, tenable for two years, will be awarded in November to the student who gains the highest number of marks in Anatomy and Physiology in April and October, 1894.

7. *Andrew Weir Bursary*, annual value £18, tenable for one year, will be awarded in November in accordance with results of Second and Third Professional Examinations.

8. *Junior Arnott Prize*, of about £15, for an examination in General Physics, open to students of the first and second years of their medical studies.

9. *Senior Arnott Prize*, of £25, for an examination in Physiological Physics, open to students of the third and fourth years of their medical studies.

10. *Bruuton Memorial Prize*, of about £10, is given to the most distinguished graduate in Medicine of the year.

### DATES OF EXAMINATIONS.

The Examinations for the Bursary No. 1 in the above list will be held in June; for Nos. 2 and 3, on Monday and Tuesday, 8th and 9th October, at ten A.M. each day; for Nos. 4 and 5 on Friday and Saturday, 12th and 13th October, at ten A.M. each day; and for the Prizes Nos. 8 and 9, on Saturday, 13th October, at two P.M.

### DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursary No. 1 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 1st June; for Bursaries Nos. 2 and 3, not later than 13th September; for Bursaries Nos. 4 and 5, and for Prizes 8 and 9, not later than 26th September.

For the William Whyte, the Armagh, the James Ferguson, and the Macdonald Bursaries, also tenable by students of Medicine, see Nos. 51, 73, 58, and 62 under Faculty of Arts.



5.—*UNIVERSITY PRIZE ESSAYS.*

FOR SESSION 1894-95.

1. In THEOLOGY, the CLELAND GOLD MEDAL, for the Best Essay on "Agnosticism." All Students of Divinity in Session 1893-94, or Session 1894-95, may be Competitors.

2. In MENTAL PHILOSOPHY, the UNIVERSITY SILVER MEDAL, for the Best Essay on "The Beautiful and the Sublime." All Students of the Classes of Logic, Moral Philosophy, or English Literature, in Session 1893-94, or Session 1894-95, may be Competitors.

3. The EWING GOLD MEDAL, for the Best Essay on "Louis Kossuth." All Matriculated Students of the University in Session 1894-95 may be Competitors.

4. A WATT PRIZE OF TEN POUNDS, for the Best Essay on "The Liquefaction of Gases." For the Watt Prize all Matriculated Students of the University in Session 1894-95, who have finished, or who, at the end of Session 1894-95, shall finish a regular course of Languages and Philosophy, may be Competitors. [Essays may be given in as late as 1st March, 1895.]

5. A COULTER PRIZE OF FIVE POUNDS, for the Best Sermon on the text:—"Prove all things: hold fast that which is good," 1 Thess. v. 21.

6. A COULTER PRIZE OF FIVE POUNDS, for the Best Greek Dialogue of between 600 and 1000 words on the following subject:—Euripides asserts that orators, generals, and all who practise their trades in public become vain, like acrobats and actors, and are more set upon winning applause than upon doing good work. Nicias denies this: Socrates examines it.

For the Coulter Prizes all Matriculated Students of the University in Session 1894-95 may be Competitors.

7. The RAE WILSON GOLD MEDAL, for the Best Essay on "Recent Views as to the Resurrection of Jesus Christ." All Students attending the Divinity Class in Session 1894-95 may be Competitors.

8. The HENDERSON PRIZE OF TWENTY GUINEAS, for the Best Essay on "The Province of Legislation in reference to the Christian Sabbath." All Matriculated Students of the University in Session 1894-95 may be Competitors.

9. The DOBBIE-SMITH GOLD MEDAL, for the Best Essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the Essay to be accompanied by an illustrative series of Macroscopic and Microscopic Specimens. All Matriculated Students of Session 1894-95, or of the preceding Summer Session, may be Competitors.

The Essays, with the exception noted above, must be given in to the Principal on or before Wednesday, 14th November, 1894, after which day none can be received. Each must be distinguished by Two Mottoes, and accompanied by a sealed letter bearing on the outside the same Mottoes, and containing a declaration subscribed by the author that the Essay is entirely of his own composition. All quotations in the Essays must be carefully marked, and accurate references to their respective authorities given in the notes. The Senate reserves the power of withholding the Prize for any subject, if none of the Essays on that subject reaches a sufficiently high standard of merit.



## IX.—HONOUR LIST.

LIST OF NAMES OF GENTLEMEN WHO HAVE TAKEN DEGREES  
WITH HONOURS SINCE THE YEAR 1836.

## MASTERS OF ARTS (M.A.)

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1836	John Cunningham,	Scotland,	...	...	I	...
"	William Fulton,	do.,	II	II	..	...
1837	Richard Shaen,	England,	...	...	II	...
"	Thomas E. Richardson,	do.,	...	...	II	...
"	John Blair,	Ireland,	...	...	II	...
"	William Cuthel,	Scotland,	...	...	II	...
1840	Duncan H. Weir,	do.,	...	...	II	...
"	James Thomson,	do.,	...	...	II	...
"	John Buchanan,	do.,	...	...	II	...
1841	John D. Morell,	England,	II	II	...	...
"	William Arthur Jones,	Wales,	II	II	...	...
1842	Alexander Grierson,	Scotland,	...	...	II	...
"	John Davies,	England,	II	II	...	...
1843	Nathaniel Haycroft,	do.,	II	II	...	...
"	John Trafford,	do.,	II	II	...	...
"	David Duff,	Scotland,	...	...	II	...
1844	John Morgan,	do.,	...	...	II	...
"	John Thomson,	do.,	...	...	II	...
"	William T. Ker,	do.,	...	...	II	...
"	Richard Tomlinson,	England,	II	II	...	...
"	David M'Lauchlan,	Scotland,	II	II	...	...
1846	Robert Graham,	do.,	...	...	II	...
1847	William John Steele,	Ireland,	...	...	II	...
"	James Porter,	do.,	...	...	II	...
1848	Adam Milroy,	Scotland,	II	II	...	...
"	Walter D. Jeremy,	England,	II	II	...	...
1849	John Ker,	Scotland,	...	...	I	...
"	George M'Queen,	do.,	...	...	I	...
"	Henry Martyn Barker,	England,	I	I	...	...
"	John Newton Langley,	do.,	I	I	...	...
1850	Alexander Walker,	Scotland,	II	II	...	...
"	Horatio Lindsay Taplin,	England,	II	II	...	...
"	Robt. Masters Theobald,	do.,	II	II	...	...
1851	Carstairs Douglas,	Scotland,	...	...	II	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1851	Daniel Davies Jeremy,	England,	II	II	...	...
1852	Thomas Logan,	Scotland,	...	...	II	...
"	James Wylie Johnston,	do.,	II	II	...	...
1853	Chas. Abercromby Smith,	do.,	...	...	I	...
"	William Jack,	do.,	...	...	I	...
"	Edward Gibbs,	England,	I	I	...	...
1856	James Galbraith,	Scotland,	...	...	II	...
"	John Murray,	do.,	...	...	II	...
1857	Joseph D. Everett,	England,	II	II	I	...
"	George M. Grant,	Nova Scotia,	...	I	...	...
"	David Herbert,	Scotland,	...	II	...	...
"	Neil M'Pherson,	do.,	II	II	...	...
1858	William R. Pattison,	do.,	II	II	...	...
"	John Weir,	do.,	...	II	...	...
1859	Robert Whyte,	do.,	...	II	...	...
1860	George Porter,	do.,	II	II	...	...
"	Joseph Gardner,	do.,	...	II	...	...
"	Walter Roberts,	do.,	...	II	...	...
1861	Richard Vary Campbell,	do.,	...	I	...	...
"	Daniel Munro,	do.,	II	...	...	...
"	Peter Sinclair Menzies,	do.,	II	...	...	...
1862	John M'Lean,	do.,	II	II	...	...
"	Thomas Carruthers	do.,	II	II	...	...
"	William Stewart,	do.,	II	II	...	...
"	George Mathieson,	do.,	...	II	...	...
"	Henry W. Bell,	India,	...	II	...	...
"	John Ferguson,	Scotland,	...	...	...	I
1863	David Thomas,	do.,	...	II	...	...
1866	John Mann,	do.,	I	...	...	...
"	John Fergusson,	do.,	...	II	...	...
1867	William E. Grigsby,	England,	II	...	...	...
"	James Smith,	Scotland,	...	...	I	...
"	William Ross,	do.,	...	...	II	...
1868	Robert Stewart,	do.,	...	I	...	...
"	John Wilson,	do.,	...	I	...	...
1869	Favour James Greg,	do.,	...	I	...	...
"	Adam Semple,	do.,	...	I	...	...
"	Joseph Loudon,	do.,	...	...	II	...
"	James M'Intosh,	do.,	...	I	...	...
1870	John Cross,	U. S. A.,	I	I	...	...
"	Matthew M. Dickie,	England,	II	I	...	...
"	James Orr,	Scotland,	...	I	...	...
"	Robert A. Sinclair,	do.,	...	II	...	...
"	James D. H. Dickson,	do.,	...	...	II	...
"	Dugald M'Kichan,	do.,	...	...	II	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1871	William S. Fleck,	Scotland,	...	I	...	...
"	William Oliver,	Wales,	...	II	...	...
"	John E. H. Thomson,	Scotland,	...	II	...	...
"	Colin R. M'Clymont,	do.,	...	I	...	...
"	Charles S. Dickson,	do.,	...	II	II	...
1872	William Hamilton,	do.,	...	I	...	...
"	John Watson,	do.,	...	I	...	...
"	Zachary M. H. Ross,	do.,	...	II	...	...
"	Archibald Russell,	do.,	...	II	...	...
"	William G. Miller,	do.,	...	...	II	...
"	John M. Brown,	do.,	...	I	...	...
"	Alexander S. Macphee,	do.,	...	I	...	...
"	James C. MacTaggart,	do.,	...	...	I	...
"	James Henderson,	do.,	...	...	II	...
1873	William Bathgate,	do.,	I	...	...	...
"	John M'Cunn,	do.,	...	I	...	...
"	T. Lindsay Galloway,	do.,	...	...	I	...
"	David Hunter,	do.,	II	I	...	...
"	Robert Harvey,	do.,	I	...	...	...
"	Thomas H. Miller,	do.,	...	...	I	...
"	Buchanan Blake,	do.,	...	II	...	...
"	James Arthur,	do.,	...	...	II	...
1874	James Bonar,	do.,	I	I	...	...
"	James G. Frazer,	do.,	I	...	...	...
"	Alexander F. Fraser,	do.,	...	I	...	...
"	John Wilson Reid,	do.,	I	...	II	...
"	Colin Campbell,	do.,	II	I	...	...
"	James Thomson,	do.,	...	I	...	...
"	Hugh Hart Currie,	do.,	II	...	...	...
"	James MacKay,	do.,	II	...	...	...
1875	Benj'n F. C. Costelloe,	Ireland,	II	I	...	...
"	William Yuill King,	Scotland,	I	...	...	...
"	William Patrick,	do.,	...	I	...	...
"	John Patrick,	do.,	II	...	...	...
"	James S. Russell,	do.,	...	...	I	...
"	John C. Watt,	do.,	...	...	I	...
"	John B. Douglas,	England,	II	...	...	...
"	Neil D. MacLachlan,	Scotland,	...	II	...	...
"	James Johnston Dobbie,	do.,	...	...	...	I
1876	James Lambie,	do.,	...	I	...	...
"	Ebenezer B. Speirs,	do.,	...	I	...	...
"	Islay F. Burns,	do.,	II	...	...	...
"	Robert MacLehose,	do.,	...	II	...	...
"	Joseph Conn,	do.,	...	...	II	...
"	Robert H. Pinkerton,	do.,	...	...	II	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1876	David Wilson,	Scotland,	...	...	II	...
"	John P. Mitchell.	do.,	...	I	..	...
"	William M. Rankin,	do.,	...	I	...	...
"	Andrew Gray,	do.,	...	...	II	...
1877	Wallace M. Lindsay,	do.,	I	II	...	...
"	Alexander S. Wilson,	do.,	...	...	...	I
"	James Kidd,	do.,	...	I	...	...
"	Thomas B. Kilpatrick,	do.,	...	I	...	...
"	Mungo W. McCallum,	do.,	...	II	...	...
"	William Allan,	do.,	...	...	II	...
"	James Arthur,	do.,	...	...	II	...
1878	Robert Mackintosh,	do.,	II	I	...	...
"	John Edgar,	do.,	I	...	...	...
"	John M. Dodds,	do.,	...	...	I	...
"	David W. Forrest,	do.,	...	II	...	...
"	Alexander Isdale,	do.,	...	I	...	...
"	Lewis A. Muirhead,	do.,	...	I	...	...
"	James Wilson,	do.,	II	...	II	...
1879	John Wilson Marshall,	do.,	I	II	...	...
"	Francis Wm. Clark,	do.,	II	II	...	...
"	Henry Jones,	Wales,	...	I	...	...
"	William T. Bankhead,	Scotland,	...	II	...	...
"	Andrew Rutherford,	do.,	...	II	...	...
"	James Thomson,	Ireland,	...	...	II	...
"	James Denney,	Scotland,	I	I	...	...
"	James Kippen Duff,	do.,	I	...	...	...
"	Robt. Tannahill Younger,	do.,	..	II	...	...
"	William L. Macindoe,	do.,	...	...	II	...
1880	Alexander Gregory,	do.,	II	...	...	...
"	Thomas Gregory,	do.,	I	I	I	...
"	Alexander N. Cumming,	do.,	II	II	...	...
"	Hugh Young Reyburn,	do.,	II	II	...	...
"	John G. A. Dow,	do.,	II	...	...	...
"	John Henderson,	do.,	...	II	...	...
1881	Cecil J. Swan,	do.,	II	...	...	...
"	Francis H. Stead,	England,	II	I	...	...
"	David S. Adam,	Scotland,	...	I	...	...
"	William Granger,	do.,	..	I	...	...
"	Robt. F. Muirhead, B.Sc.,	do.,	...	...	I	...
"	Alexander Russell,	do.,	...	...	I	...
"	Patrick H. Aitken,	do.,	II	...	...	...
"	Alexander Anderson,	do.,	II	...	...	...
"	Robert T. London,	do.,	...	II	...	...
"	Robert Veitch,	England,	...	II	...	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1881	James Maclay,	Scotland,	...	...	II	...
"	John Stuart,	do.,	...	...	II	...
"	James Hamilton,	do.,	...	...	II	...
1882	James A. McCallum,	do.,	...	I	...	...
"	John H. Fullarton,	do.,	...	...	...	I
"	Charles P. Blair,	do.,	...	II	...	...
"	James M. Dodds,	do.,	I	...	...	...
"	John S. MacKenzie,	do.,	...	I	...	...
"	William Smart,	do.,	...	I	...	...
"	John Weir,	do.,	...	...	I	...
"	John Gray,	do.,	...	II	...	...
"	Charles Steele,	do.,	...	II	...	...
1883	John Aitken Orr,	do.,	...	I	...	..
"	Alexander Robinson,	do.,	...	II	...	...
"	Lewis Hughes,	Wales,	...	II	...	...
"	Francis Anderson,	Scotland,	...	I	...	...
"	Wm. S. McKechnie,	do.,	...	I	...	...
"	William Muir,	do.,	...	I	...	...
"	James W. Inglis,	do.,	II	...	...	...
"	Patrick H. Hutchinson,	Ireland,	II	...	...	...
"	Robert A. Moody,	Scotland,	II	...	...	...
"	William T. Mitchell,	do.,	...	...	II	...
1884	Andrew A. Mitchell,	do.,	I	..	...	...
"	James McMillan,	do.,	I	...	...	...
"	Archd. S. Laidlaw,	do.,	...	I	...	...
"	John Mack,	do.,	...	...	I	...
"	William Clark,	do.,	II	...	...	..
"	John Struthers,	do.,	II	I	...	...
"	Archibald M'Laren,	do.,	I	...	...	...
"	John Adams,	do.,	...	I	...	...
"	James Barr,	do.,	...	I	...	...
"	Gavin Lambie,	do.,	...	I	...	...
"	Robert M. Wenley,	do.,	...	I	...	...
"	George G. Henderson,	do.,	...	...	...	I
"	Campbell N. Moody,	do.,	II	II	...	...
"	Hugh Stevenson,	do.,	...	II	...	...
"	James Strachan,	do.,	..	...	II	...
"	Alex. B. Symington,	do.,	II	...	...	...
1885	John Lee,	do.,	I	...	...	...
"	James Buchanan,	do.,	...	...	I	...
"	Norman Fraser,	do.,	...	...	I	...
"	James P. M'Laren,	do.,	II	...	...	...
"	William Binnie,	do.,	...	II	...	...
"	David Frew,	do.,	...	II	...	...
"	Richard Glaister,	do.,	...	II	...	...
"	David Houston,	do.,	...	II	...	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1885	Walter Wingate,	Scotland,	...	...	II	...
"	William M. Mackay,	do.,	...	I	...	...
"	Andrew F. Smith,	do.,	...	I	...	...
"	Alex. L. Watson,	do.,	II	...	...	...
"	Archibald J. Macnicol,	do.,	...	...	II	...
1886	Charles F. Fleming,	England,	...	I	...	...
"	Wellstood A. Watt,	Scotland,	...	I	...	...
"	John Dougall,	do.,	...	...	I	...
"	John M'Cowan, B.Sc.,	do.,	...	...	I	...
"	William H. Carslaw,	do.,	...	...	II	...
"	Magnus M'Lean,	do.,	...	...	II	...
"	John A. Cramb,	do.,	I	...	...	...
"	Robert A. Duff,	do.,	...	I	...	...
"	William Johnston,	do.,	...	II	...	...
"	James Macmillan,	do.,	...	...	II	...
"	Robert A. Nicolson,	do.,	...	...	II	...
1887	James Finlayson,	do.,	...	...	II	...
"	James Gifford,	do.,	...	II	...	...
"	Charles Mackay Gordon,	W. Indies	...	I	...	...
"	David Smith,	Scotland,	I	...	...	...
"	John Watson Bryson,	do.,	...	I	...	...
"	Robert Gardner,	do.,	...	II	...	...
"	James Gilfillan,	do.,	...	I	...	...
"	Daniel Kirkwood,	do.,	...	II	...	...
"	Alexander Lucas Taylor,	do.,	II	...	...	...
"	John Thomson,	do.,	...	...	II	...
1888	John Esslemont Adams,	do.,	II	...	...	...
"	Archibald Lamont,	do.,	...	II	...	...
"	Arthur David Millar,	do.,	I	...	...	...
"	John Dickson Sinclair,	do.,	...	II	...	...
"	Evan Keri Evans,	Wales,	...	I	...	...
"	Robert Kennedy, B.Sc.,	Scotland,	...	...	...	I
"	John Liddle King,	do.,	...	II	...	...
"	Malcolm Macnicol,	do.,	...	...	II	...
"	Ernest Findlay Scott,	England,	I	I	...	...
"	Robert Scrymgeour,	Scotland,	...	I	...	...
"	Robert Reid Strachan,	do.,	...	II	...	...
"	John Cunningham Walker,	do.,	...	II	...	...
1889	Norman de Garis Davies,	England,	...	II	...	...
"	George Davidson Kempt,	Scotland,	...	II	...	...
"	Alfred Ernest Garvie,	Poland,	...	I	...	...
"	John Hunter Harley,	Scotland,	...	I	...	...
"	John Brownlee,	do.,	...	...	I	...
1890	James Fairlie Gemmill,	do.,	I	...	...	...
"	John Edgar M'Fadyen,	do.,	I	...	...	...
"	James Robertson Cameron,	do.,	...	I	...	...



			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1890	James Moffatt,	Scotland,	II	...	...	...
"	James Peter Wilson,	do.,	II	...	...	...
"	John Easton Black,	do.,	...	II	...	...
"	George Douglas Brown,	do.,	I	...	...	...
"	Robert Bulloch Douglas,	do.,	...	I	...	...
"	Peter Pinkerton,	do.,	...	...	I	...
"	Douglas Blyth Binning,	do.,	...	II	...	...
"	Robert Baillie Douglas,	do.,	...	II	...	...
"	James Hair Maclean,	do.,	...	II	...	...
"	Gilbert Buchanan,	do.,	...	...	II	...
"	Alexander Holm,	do.,	...	...	II	...
1891	John Hamilton Pagan,	do.,	I	...	...	...
"	John Gillies,	do.,	II	...	...	...
"	John M'Gilchrist,	do.,	II	...	...	...
"	Horatio Scott Carslaw,	do.,	...	...	I	...
"	James Holm,	do.,	...	...	I	...
"	Nicol Macnicol,	do.,	II	II	...	...
"	John White,	do.,	...	II	...	...
1892	David Donaldson Robertson,	do.,	...	I	...	...
"	Daniel Lamont,	do.,	...	II	I	...
"	John Gillespie Spens,	do.,	II	...	...	...
"	Alexander Taylor,	do.,	II	...	...	...
"	Walter Stewart,	do.,	...	...	I	...
1893	Donald Nicol Dow,	do.,	I	...	...	...
"	Wm. Sandilands Templeton,	do.,	...	...	I	...
"	Wm. Carrick Anderson,	do.,	...	...	...	I
"	Edward H. Wallace,	do.,	II	...	II	...
1894	Campbell M. Macleroy,	do.,	I	...	...	...
"	Robert George Nisbet,	do.,	II	...	...	...
"	Andrew Robertson,	do.,	II	...	...	...

## BACHELORS OF SCIENCE (B.Sc.).

			<i>Honours.</i>	
			Natural Science.	Engineering Science.
1879	Robert F. Muirhead,	C.E., Scot.,		Math. & Nat. Phil. II
1882	John Cleland,	C.E., Scotland,		Math. & Nat. Phil. II
1883	John M'Cowan,	C.E., do.,		Math. & Nat. Phil. II
1884	William Weir,	do.,		Math. & Nat. Phil. II
"	James C. Todd,	India,	Math. & Nat. Phil. II	
1886	Laurence Crawford,	Scotland,		Math. & Nat. Phil. I
1887	Angus M'Lean,	do.,		Math. & Nat. Phil. II

			<i>Honours.</i>	
			Natural Science.	Engineering Science.
1890	James Stanley Muir,	Scotland,	Chemistry.	
„	Robert Watson Smith,	do.,	Chemistry.	
1891	James Fenwick,	Australia,		Civil Engineering.
„	Robert Main,	Scotland,	Chemistry.	
„	Robert Muir Ferrier,	do.,		Civil Engineering.
1892	John Dewar Cormack,	do.,		Math. & Nat. Phil. 1
„	James Blacklock Henderson,	do.,		Civil Engineering.
„	James Rankin,	do.,	Zoology and Botany.	Math. & Nat. Phil. 1
„	William S. Cook,	do.,	Physiology.	Civil Engineering.
„	David R. Boyd,	do.,	Chemistry.	
1893	James C. Robertson,	M.A., do.,	Anat. and Physiol.	
1894	Charles Forbes,	do.,		Civil Engineering.

DOCTORS OF MEDICINE (M.D.). (*O. R.*) HONOURS.

1845	Alexander Lindsay,	Scotland.	1853	Richard Stanistreet,	Ireland.
„	James Craigie Murray,	do.	„	David Knox,	do.
„	Francis Reynolds,	Ireland.	1854	John Lindsay Stewart,	Scotland.
„	John Brown,	Scotland.	„	James Fraser Paton,	do.
„	John Gardiner,	do.	„	David Easton,	Ireland.
„	Donald Cameron,	Isle of Man.	1855	William Leishman,	Scotland.
„	Adam Nicholson,	Scotland.	„	William J. Lewis,	New Brunswick.
„	John Duke,	Ireland.	„	Alexander Robertson,	Scotland.
1847	William Parry,	Wales.	1857	Thomas Beaumont,	Ireland.
„	Robert Livingstone,	Scotland.	„	Joseph M. Fleming,	Scotland.
„	Alexander B. Sharpe,	Scotland.	„	Maxwell Rodgers,	Ireland.
1848	Charles H. Hitchen,	England.	1858	John Couper,	Scotland.
„	James Steven,	Scotland.	„	Thomas M'Call Anderson,	do.
„	John Coates,	Ireland.	1859	Daniel Dougal,	do.
1849	Robt. Brown M'Clelland,	Ireland.	1861	William Marshall,	America.
„	Thomas Nicholson,	Scotland.	„	John M. Murray,	Scotland.
„	Robert Settle,	England.	„	James A. Allan,	do.
„	Richard Thomas Tracy,	Ireland.	1862	Robert M'K. Duncan,	do.
„	Matthew John Rae,	Scotland.	„	George M'Donald,	do.
1850	John Ternan,	Ireland.	„	Samuel J. Moore,	Ireland.
„	John Henry Eddowes,	England.	„	William Fraser,	Nova Scotia.
„	James Brash,	Scotland.	„	T. Algernon Chapman,	Scotland.
1851	Alexander Marshall,	do.	„	Algernon Wood Smith,	do.
„	Andrew Spearing,	Ireland.	„	John P. Atkinson,	England.
„	James B. Montgomery,	England.	1864	John Wyber,	Scotland.
„	Robert Perry,	Scotland.	„	J. G. Wilson, M.A.,	do.
„	John Watson, B.A.,	do.	1865	Arthur A. Jamieson,	England.
1853	John Ritchie Brown,	do.	1867	Fred. H. Quaife, M.A.	Sydney, N.S.W.
„	Charles D. Campbell,	Ireland.			

DOCTORS OF MEDICINE (M.D.). (*N.R.*)

## COMMENDED FOR THESIS.

- 1876 Gardner, William, M.B., England.
- 1877 Turner, William Y., M.B., Scotland. Thesis, "The Ethnology of the Motu."
- 1879 Fleming, William James, M.B., Scotland. Thesis, "The Dicrotic Notch in Pulse Tracings."
- 1880 Oliver, Thomas, M.B., Scotland. Thesis, "Heredity viewed in its relation to Responsibility."
- 1880 Bryce, James, M.B., Scotland. Thesis, "That Mankind originated as a Common Family—most probably on a Continent in the Indian Ocean—certainly within the Tropics."
- 1881 Adams, James Alexander, M.B., Scotland. Thesis, "Anatomical Relation between Abscess of Brain and Aural Disease."
- 1881 Stewart, Alexander, M.B., Scotland. Thesis, "History of a Personal Attack of Typhoid Fever."
- 1881 Drummond, James, M.B., Scotland. Thesis, "Sea Sickness: its Etiology, Symptoms, and Treatment."
- 1881 Macphail, Donald, M.B., Scotland. Thesis, "Chemical Investigations on the Degenerative Changes in Diseased Bone."
- 1882 Cairns, David, M.B. Thesis, "An Outbreak of Pyæmia."
- 1882 Adam, Thomas Bate, M.B., Scotland. Thesis, "The Pathology and Etiology of Elephantoid Disease."
- 1882 Rankin, Guthrie, M.B., Scotland. Thesis, "Puerperal Fever."
- 1883 Inglis, David Wood, M.A., M.B., Scotland. Thesis, "On the Prevention of Lead Poisoning among Workers in White Lead Factories."
- 1883 Newman, David, M.B., Scotland. Thesis, "Displacements of the Kidney."
- 1884 Lawrie, J. Macpherson, M.B., Scotland. Thesis, "On some Symptoms of Locomotor Ataxy."
- 1884 Allan, Robert, M.B., Scotland. Thesis, "Dermoid Cysts."
- 1884 Middleton, George S., M.A., M.B., Scotland. Thesis, "On the Pathology of Pseudo-Hypertrophic Muscular Paralysis." Highly Commended.
- 1884 Steven, John Lindsay, M.B., Scotland. Thesis, "The Pathology of Suppurative Inflammations of the Kidneys." Highly Commended.
- 1885 Mackay, John Yule, M.B., Scotland. Thesis, "The Origin and Development of the Larger Arteries." Highly Commended.
- 1885 Macvie, William, M.B., Scotland. Thesis, "Atrophic Infantile Paralysis."
- 1885 Dougal, James, M.B., Scotland. Thesis, "Puerperal Pyrexia."
- 1886 Lawrie, William John, M.B., Scotland. Thesis, "Pathological Formations of the Skin."
- 1886 Somerville, William Francis, M.A., B.Sc., M.B., Scotland. Thesis, "Urosemiotic; the Pathological Chemistry of the Urine, the complete Quantitative Analysis of the Urine; a valuable aid to Clinical Diagnosis." Highly Commended.
- 1886 Stewart, Robert Sloss, M.B., Scotland. Thesis, "Observations on the Spinal Cord in the Insane." Highly Commended.
- 1886 Rankin, Alexander, M.B., Scotland. Thesis, "Cerebral Cases, with remarks."
- 1886 Auld, Alexander Gunn, M.B., Scotland. Thesis, "Studies in Materia Medica."
- 1887 Chalmers, Archibald Kerr, M.B., Scotland. Thesis, "The Temperature Curve of Specific Fevers."
- 1887 Neilson, Henry John, M.B., Scotland. Thesis, "On the observation of the pupil as a guide in the administration of Chloroform."
- 1887 Brown, John, M.B., Scotland. Thesis, "Maternal Impressions."

- 1887 Love, John, M.B., Scotland. Thesis, "Three cases of Cortical Epilepsy considered in relation to the localization of the discharging lesion."
- 1888 Finlay, David, M.B., Scotland. Thesis, "Clinical Observations on Epileptic Insanity."
- 1888 Love, James Kerr, M.B., Scotland. Thesis, "The Limits of Hearing."
- 1888 Macpherson, Charles, M.B., Scotland. Thesis, "Plural Pregnancies."
- 1888 Wallace, William, M.B., Scotland. Thesis, "The Field of Vision: with special reference to its Anomalies in Diseases of the Nervous System."
- 1889 Christie, William Walls, M.B., C.M., Scotland. Thesis, "The Outbreak of Febrile Disease in St. Mary's Roman Catholic Industrial Schools, Glasgow, March 1888: its Clinical Features and Nature."
- 1889 Kelly, James Kellock, M.B., Scotland. Thesis, "Private Obstetric Practice: an analysis of 3000 consecutive cases."
- 1889 Mackenzie, William James, M.B., India. Thesis, "The effects of the conditions of London Life on the Nervous System: with remarks on the treatment."
- 1889 Hinshelwood, James, M.A., M.B., Scotland. Thesis, "A Clinical Study of Syphilitic Diseases of the Nervous System."
- 1890 Anderson, John Alexander, M.B., Scotland. Thesis, "On Tetanus: with a record of six cases."
- 1890 Bankier, Alexander Milne, M.B., England. Thesis, "Influenza."
- 1891 Smith, John Macdowal, M.B., Scotland. Thesis, "The Disposal of Sewage and City Refuse."
- 1891 Rhodes, Hugh, M.B., C.M., England. Thesis, "Koch's Treatment in Phthisis and Lupus." With Honours.
- 1891 Bannatyne, Gilbert Alexander, M.B., C.M., Scotland. Thesis, "The Treatment of Diphtheria by the Injection of the Erysipelas Albumose."
- 1891 M'Gregor, Andrew Nicholson, M.B., C.M., Scotland. Thesis, "Some Notes on the Repair of Bone, with special reference to Transplantation and other Artificial Aids."
- 1891 Ramsay, Andrew Maitland, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre."
- 1891 Johnstone, John Carlyle, M.B., C.M., Scotland. Thesis, "Some Notes on the use of Sulphonal."
- 1892 Highet, Hugh, M.B., C.M., Scotland. Thesis, "The Bronchiopneumonia of Influenza, as it occurs in the Adult Subject."
- 1892 Park, Alexander Glen, M.B., C.M., Scotland. Thesis, "Defects of Speech."
- 1893 Lang, Hugh, M.B., C.M., Scotland. Thesis, "Empyema, with Notes on a Series of Cases."
- 1893 Gillies, Hugh Cameron, M.B., C.M., Scotland. Thesis, "The Theory of Counter-irritation."
- 1893 Carslaw, John Howie, M.A., M.B., C.M., Scotland. Thesis, "On the severer forms of Scarlet Fever, with special reference to Antipyretic Methods of Treatment." With Honours.
- 1893 Adam, Robert Hillhouse, M.A., M.B., C.M., Scotland. Thesis, "Observations on some Enteric Fever Epidemics."
- 1893 Bryce, Alexander, M.B., C.M., Scotland. Thesis, "Sanitation in Dairy Farms in relation to diseases attributable to Cows' Milk."
- 1893 Dunlop, Alexander Watson, M.A., M.B., C.M., Scotland. Thesis, "A recent Epidemic of Smallpox, with some remarks on Re-Vaccination."
- 1893 Gemmell, William, M.B., C.M., Scotland. Thesis, "On the Treatment of Phthisis by a long Sea Voyage in a sailing ship."
- 1893 Watson, William, M.B., C.M., Scotland. Thesis, "The Prevention and Treatment of Diphtheria."

## BACHELORS OF MEDICINE (M.B.). HONOURS.

1866	Robert W. Forrest,	Scotland.	1878	James Morton,	Scotland.
"	Henry T. Pringle,	do.	"	William Partington,	do.
1867	Ebenezer Duncan,	do.	"	Lawrence A. Waddell,	do.
"	Joseph Coats,	do.	1879	William K. Peden,	do.
"	James Finlayson,	do.	"	Ralph D. Stevenson,	Australia.
1868	Thomas Barr,	do.	1880	Andw. A. Hogarth, M.A.,	Scotland.
"	William MacLachlan,	do.	"	J. M'Gregor-Robertson, M.A.,	do.
"	Angus Macmillan,	do.	"	John Lindsay Steven,	do.
1869	James Coats,	do.	1881	John More Young, M.A.,	do.
1871	David Wilkie,	do.	1882	Robert Beith,	do.
"	John Aikman,	do.	1883	John Innes Dunlop,	do.
1872	John D. Macdonald,	do.	1884	Charles O. Hawthorne,	England.
"	Samson Gemmell,	do.	1886	Alexander Bryce,	Scotland.
1876	Geo. S. Middleton, M.A.,	do.	"	Wm. Snodgrass, M.A.,	U.S.A.
"	Richard B. Macpherson,	do.	"	John H. Carslaw, M.A.,	Scotland.
1877	Johan B. Knobel,	Africa.	1887	William MacLennan,	do.
"	Donald Macphail,	Scotland.	1891	Hugh Galt,	do.
"	John Carlyle Johnstone,	do.	"	Robert Currie Robertson, M.A.,	do.
"	Edward D. M. Mackellar,	do.	1892	John Morton,	Scotland.
1878	Alexander Fraser,	do.	"	James Carslaw, M.A.,	do.

## BRUNTON MEMORIAL PRIZE OF £10,

*Awarded to the most distinguished Graduate in Medicine of the year.*

1880. John Lindsay Steven, M.B., C.M.	1887. William MacLennan, M.B., C.M.
1881. John More Young, M.A., M.B., C.M.	1888. Landel Rose Oswald, M.B., C.M.
1882. Robert Beith, M.B., C.M.	1889. William Robert Jack, B.Sc., M.B., C.M.
1883. John Innes Dunlop, M.B., C.M.,	1890. George Lamb, M.B., C.M.
1884. Charles Oliver Hawthorne, M.B., C.M.	1891. Hugh Galt, M.B., C.M.
1885. Andrew Wilson, M.B., C.M.	1892. John Morton, M.B., C.M.
1886. Alexander Bryce, M.B., C.M.	1893. John Johnson Urwin, M.B., C.M.

## THOMAS LOGAN MEDAL AND PRIZE,

*Awarded to the most distinguished Graduate in Arts of the year.*

1888. Ernest Findlay Scott, M.A.	1891. James Holm, M.A.
1889. Alfred Ernest Garvie, M.A.	1892. Daniel Lamont, M.A.
1890. John Edgar M'Fadyen, M.A.	1893. Gilchrist Gibb Alexander, M.A.

## X.—DEGREE AND PRIZE LIST.

### LIST OF DEGREES

CONFERRED IN THE VARIOUS FACULTIES AND OF PRIZES AND  
CERTIFICATES OF HONOUR AWARDED IN THE SEVERAL  
CLASSES OF THE UNIVERSITY DURING THE YEAR ENDING  
1ST MAY, 1894.

#### DOCTORS OF DIVINITY (D.D.).

- Rev. Robert Smith Duff, M.A., Free St. George's Church, Glasgow.  
 Rev. John Gardner Fraser, M.A., Warden of Camden College, New South Wales.  
 Rev. Alexander Hislop, M.A., Professor of Practical Theology, United Presbyterian Theological Hall, Edinburgh.  
 Rev. James Waters King, M.A., Minister of New Kilpatrick.  
 Rev. Alexander M'Quisten, M.A., Minister of Inverkip.  
 Rev. John Ross, Missionary in Manchuria.

#### DOCTORS OF LAWS (LL.D.).

- Edward Caird, D.C.L., Master of Balliol College, Oxford.  
 Alexander Blackie William Kennedy, F.R.S., Emeritus Professor of Engineering in University College, London, President of the Institution of Mechanical Engineers, London.  
 Alexander Smith Kinnear, Senator of College of Justice, Edinburgh.  
 Frank M'Clean, M.A., F.R.A.S., Rustall House, Tunbridge Wells.  
 John Oswald Mitchell, B.A., Merchant, Glasgow.  
 Walter Horatio Pater, M.A., Fellow, Dean, and Lecturer, Brasenose College, Oxford.  
 James Smith, F.E.I.S., Secretary (formerly President) of Educational Institute of Scotland, Headmaster of Public School, Uddingston (retired).

#### BACHELORS OF DIVINITY (B.D.).

*April, 1894.*

- |                              |                              |
|------------------------------|------------------------------|
| Hector Maiben Adam, M.A.     | Donald Dewar Macdonald, M.A. |
| Gilbert Buchanan, M.A.       | Bryce MacFarlane, M.A.       |
| Robert Baillie Douglas, M.A. | John M'Gilchrist, M.A.       |
| Robert Fulton, M.A.          | James Hair Maclean, M.A.     |
| David Scribner Merrow, M.A.  | Adam Nelson, M.A.            |
| James Moffatt, M.A.          | John Hamilton Pagan, M.A.    |
| John Morrison, M.A.          | David Young, M.A.            |
| Julius M'Callum, M.A.        |                              |

#### BACHELORS OF LAWS (LL.B.).

*April, 1894.*

- |                     |                     |
|---------------------|---------------------|
| Robert Lamond, M.A. | Alfred Scobie, M.A. |
|---------------------|---------------------|



## BACHELORS OF LAW (B.L.).

*November, 1893.*

Patrick Fullarton Watt Edington.

*April, 1894.*Edward Dunlop.  
George Dunlop.  
William Graham.Francis William Harvey.  
Robert Blair Hay.  
Harry Lumsden, M.A.

## DOCTORS OF MEDICINE (M.D.).

*July, 1893.*

## I. WITH COMMENDATION.

Hugh Cameron Gillies, M.B., C.M., Scotland. (*Thesis*—"The Theory of Counter-Irritation.")

## II. ORDINARY DEGREE.

Robert Craik, M.B., C.M., Scotland. (*Thesis*—"Dysmenorrhœa.")Walter Hunter, M.B., C.M., Scotland. (*Thesis*—"Clinical Notes: (1) On the Cure of Myxœdema, with Photographs; (2) On the Prevention of Habitual Abortion.")David Macdonald, M.B., C.M., Scotland. (*Thesis*—"On Spinal Irritation and the ill-defined and unsatisfactory position of the Subject, with Notes of some 40 Cases.")James Andrew Neptune Scott, M.B., C.M., Australia. (*Thesis*—"The Diagnosis and Treatment of Echinococcus Cysts.")*November, 1893.*

## I. WITH HONOURS.

John Howie Carslaw, M.A., M.B., C.M., Scotland. (*Thesis*—"On the Severer Forms of Scarlet Fever, with special reference to Antipyretic Methods of Treatment.")

## II. WITH COMMENDATION.

Robert Hillhouse Adam, M.A., M.B., C.M., Scotland. (*Thesis*—"Observations on some Enteric Fever Epidemics.")Alexander Bryce, M.B., C.M., Scotland. (*Thesis*—"Sanitation in Dairy Farms in relation to diseases attributable to Cows' Milk.")Alexander Watson Dunlop, M.A., M.B., C.M., Scotland. (*Thesis*—"A recent Epidemic of Smallpox, with some Remarks on Re-Vaccination.")William Gemmell, M.B., C.M., Scotland. (*Thesis*—"On the Treatment of Phthisis by a long Sea Voyage in a Sailing Ship.")

## III. ORDINARY DEGREE.

Robert Anderson, M.B., C.M., Scotland. (*Thesis*—"On Movable Kidney: Its Frequence and Causation.")Alexander Cook, M.B., C.M., Scotland. (*Thesis*—"Plastic or Fibrinous Bronchitis, with Notes of a Case and Observations thereon.")David Frame, M.A., M.B., C.M., Scotland. (*Thesis*—"Symptoms, Progress, and Treatment of Five Cases of Cerebro-Spinal Meningitis.")Llewellyn M'Whannell, M.B., C.M., Isle of Man. (*Thesis*—"Typhus Fever.")  
James Sim Wallace, B.Sc., M.B., C.M., Scotland. (*Thesis*—"Nitrous Oxide Anæsthesia.")*April, 1894.*

## I. WITH COMMENDATION.

William Watson, M.B., C.M., Scotland. (*Thesis*—"The Prevention and Treatment of Diphtheria.")

## II. ORDINARY DEGREE.

- David Arthur, M.B., C.M., Scotland. (*Thesis*—"The Bacteriology of Sewer Air.")
- George Scott Jackson, M.B., C.M., England. (*Thesis*—"Diphtheria.")
- Dugald Mitchell, M.B., C.M., Scotland. (*Thesis*—"Notes on the Evolution of Therapeutics.")
- William Anderson Soga, M.B., C.M., Kaffraria. (*Thesis*—"The Ethnology of the Bomvanas of Bomvanaland, an aboriginal tribe of South East Africa: with Observations upon the Climate and Diseases of the Country, and the Methods of Treatment in use among the people.")

### BACHELORS OF MEDICINE AND MASTERS IN SURGERY (M.B., C.M.).

July, 1893.

## I. HIGH COMMENDATION.

<sup>1</sup> John Johnson Urwin,	England.	Campbell Samson Marshall,	Scotland.
John Hammond Teacher, M.A.,	Scot.	James Thomson, M.A.,	England.
Gavin M'Callum,	Scotland.	James Clark,	Scotland.
Johnstone Brown,	"	Robert Young Aitken,	"
Robert Earle Newton,	England.	John Cross,	"

## II. COMMENDATION.

Edward Petrie Sinclair,	Scotland.	Peter M'Bryde,	Scotland.
Malcolm Macnicol, M.A.,	"	Alexander John Brownlee,	"
George Lawson Kerr,	"	Robert Ritchie Manners,	"
David Alexander Dewar,	England.	James Binnie Millar,	"
Thomas Colvin,	Scotland.	Robert Grieve, M.A.,	"

## III. ORDINARY DEGREES.

Abdullah Abdurahman, South Africa.		John Donald,	Scotland.
John Ewing Adam,	Scotland.	John Ernest Downs,	"
William Thomas Ainsworth,	"	William Duncan,	"
Robert Hugh Allen,	"	George Edgar,	"
Duncan Francis Brown,	"	James Donald Finlay,	"
Forbes Brown,	"	Alexander Forrest,	"
James Pearson Brown, M.A.,	"	Robert Scott Frew,	"
Robert Bruce,	"	James Fullarton, M.A.,	"
Geo. B. Buchanan, B.A., (Cantab.),	"	William Westwood Fyfe,	"
Walter Isaac Buchanan,	England.	Thomas Blackadder Gilchrist,	"
Allan Cameron,	Scotland.	D. Fraser Harris, B.Sc. (Lond.),	"
William Campbell,	"	Archibald Gilchrist Hay, M.A.,	"
Robert James Carroll,	"	John Lindsay Howie,	"
John Joseph Carruthers,	"	William Munn Hunter,	England.
Henry Blair Causley,	India.	George Skeen Illingworth,	Scotland.
Jos. MacNaughtan Christie, Scotland.		William Irwin,	New South Wales.
Robert Cochrane,	"	James Ritchie Jeffrey,	Scotland.
William Copland,	"	Norman Stuart Jeffrey,	England.
Alexander Crawford,	"	Thomas Kay,	Scotland.
John Crawford,	"	David Millar King,	"
Peter Forrest Dewar,	"	James Lamont,	"
Alexander Dingwall, M.A.,	"	James Lang,	"
Frederick Dittmar, M.A.,	"	James Ferguson Lees,	"
Andrew Donald,	"	Peter Marshall,	"

<sup>1</sup> Mr. Urwin gained the Brunton Memorial Prize of Ten Pounds, awarded to the most distinguished Graduate in Medicine of the year.

Duncan M'Fadyen Millar, Scotland.	Hector Monteith Robertson, Scotland.
David Ramsay Miller, ..	Hugh Robertson, ..
Jas. R. M'Cheyne Miller, M.A., ..	James Robertson, ..
James Moffat, ..	James Bryce Robertson, ..
Bruce Buchanan Morton, ..	John Crawford Robertson, Queens'nd.
Arthur Wellesley M'Clelland, Ireland.	John Selkirk, M.A., Scotland.
Donald Douglas Macdonald, Scotland.	Thomas Leadbetter Shields, ..
Duncan MacDonald, ..	Mal. Alex. M'Intyre Sinclair, England.
John M'Dougall, ..	William Smith Sinclair, Scotland.
Joseph M'Feat, ..	John Davidson Smith, ..
Roderick John Mackay, ..	Johnson Marion Smith, Australia.
William Alexander Mackay, ..	Thomas David Smith, Scotland.
John M'Kenna, ..	Peter Maclean Smyth, ..
John M'Kie, ..	Nathaniel Stevenson, M.A., ..
James Morton MacLauchlan, ..	John Stewart, ..
Thomas M'Nay, ..	Ebenezer Sugden, England.
John Alfred Naismith, ..	John Taylor, Scotland.
Balfour Stewart Nicholson, ..	John Thomas, Wales.
Andrew Christie Park, ..	Arch. Adam Warden, M.A., Scotland.
John Patrick, M.A., ..	James Loch Watson, ..
John Pearson, ..	Alfred Webster, England.
Peter Patton Petrie, M.A., ..	Alexander White, Scotland.
Eugene Louis Pouponais, West Indies.	Henry William Williams, England.
Allan Ramsay, Scotland.	Thomas Wright, Scotland.
Archibald Reye, ..	

*November, 1893.*

I. WITH COMMENDATION.

William Llewelyn Jones, Wales.

II. ORDINARY DEGREE.

John Gibson Anderson, Scotland.	George M'Feat, Scotland.
David Reid Barrie, England.	James Niven, East Indies.
Robert Boyd, Scotland.	James Hamilton Ormond, Scotland.
Thomas Scott Brodie, ..	John Paxton, ..
Alexander Dodds, ..	William Park Porter, ..
Edward Arthur Eckersley, Ireland.	Allan M'Lean Robertson, ..
James Hunter, M.A., B.Sc., Scotland.	Geddes Graham Russell, ..
Fred. William Ernest Hutcheson, Eng.	John Provand Thomson, ..
Andrew John Laird, Scotland.	Peter Thomson, B.Sc., ..
Alan Muir, ..	Frederick Henry Waddy, England.
Colin Campbell M'Call, Ireland.	

*April, 1894.*

Thomas Burns Marshall, Scotland.	Thomas Rennie Muir, Scotland.
Alexander Stewart	Robertson, Scotland.

MASTER OF ARTS (M.A.).

*October, 1893.*

James Rodger.

*November, 1893.*

I. WITH HONOURS.

*With First-Class Honours in Classics.\**

Donald Nicol Dow.

*With First-Class Honours in Mental Philosophy.*

Gilchrist Gibb Alexander.

| Robert Stevenson Horne.

*With First-Class Honours in Mathematics and Natural Philosophy.*

William Sandilands Templeton.

*With Honours in Natural Science.*

William Carrick Anderson.

## II. ORDINARY DEGREE.

Alexander Scott Campbell.

John Morgan Connor.

John Edwards.

David Fergusson.

Alfred James Fleming.

Robert Montgomery Hardie.

Alexander Rutherford Howell.

John Wilson Leitch.

James Lyle.

John Harry Miller.

James Stuart Motherwell.

Henry Donald M'Kechnie.

George Arthur M'Millan.

Roderick Reid Macnicol.

John Douglas Paterson.

Thomas Paterson.

William Livingstone Ramsay.

Archibald Reith.

Robert Moffat Scotland.

Ebenezer Scott.

John Shaw.

Peter Donald Strachan.

Peter Thomson, B.Sc.

George Simpson Yuille.

*December, 1893.*

## WITH HONOURS.

*With Second-Class Honours in Classics and in Mathematics and Natural Philosophy.*

Edward Hamilton Wallace.

*April, 1894.*

## I. WITH HONOURS.

*With First-Class Honours in Classics.*

Campbell Macqueen Macleeroy.

*With Second-Class Honours in Classics.*

Robert George Nisbet.

Andrew Robertson.

## II. ORDINARY DEGREE.

Thomas Adam.

Laurence Robertson Brown.

Thomas Scott Cairncross.

John Baillie Craig.

John Graham Cranmer.

John George Crum.

James Dewar.

William George Dodd.

James Eadie.

James Mitchell Edward.

James Fergusson.

John Fulton.

Laurence Miller Gibson.

Andrew Scoular Gilchrist.

Hyam Goodman.

Robert Howie (Dreghorn).

Gilbert Johnston.

William Kelly.

Thomas Martin.

Archibald M'Callum.

David Hume M'Curtain.

Ronald Macdonald.

George M'Pherson.

James Charles Paterson.

Andrew Patrick.

Guy Steel Peebles.

James Alexander Reid.

John Ruggan.

Thomas Saunders.

James Scott.

Thomas Scott.

William Jack Nichol Service.

John Simpson.

Robert Simpson.

John Sinclair.

John Stewart (Bute).

John Stirton.

John Struthers.

Alexander Oswald Taylor.

Henry Angus Williamson.

Robert Wilson.

James Wotherspoon.

## DOCTOR OF SCIENCE (D.Sc.).

*April, 1894.*

Charles Morton Aikman, M.A., B.Sc.

## BACHELORS OF SCIENCE (B.Sc.).

*November, 1893.*

## I. WITH HONOURS.

*With Honours in Anatomy and Physiology.**In Natural Science.*

James Currie Robertson, M.A.

## II. ORDINARY DEGREE.

*In Biological Science.*

Herbert Kidson Wallace.

*In Physical Science.*

John Clark.

*In Natural Science.*

Archibald Young.

*In Engineering Science.*

Gardiner Henderson Mackillop. | David Guiland Taylor.

Harold Workman.

*December, 1893.**In Physical Science.*

Hamilton More Wingate.

*April, 1894.*

## I. WITH HONOURS.

*With Honours in Civil Engineering.**In Engineering Science.*

Charles Forbes.

## II. ORDINARY DEGREE.

*In Geological Science.*

Robert Thomson M'Cartney.

*In Biological Science.*

Alexander Charles Farquharson, M.D.

*In Natural Science.*

William Carrick Anderson, M.A.

*In Engineering Science.*

Thomas Martin Aitken.

John Gray.

Hugh Rodger Brownlee.

Patrick Hamilton.

Robert Dunlop Cassells.

John Elder MacIlwaine.

Homer Lenoir Ferguson.

Frank Baker Zahm.

## CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

*November, 1893.*

Gardiner Henderson Mackillop. | David Guiland Taylor.

## DEPARTMENTAL CERTIFICATES.

## I. FOR DEGREE OF B.D.

## FIRST DEPARTMENT.

*November, 1893.*

Hector Maiben Adam, M.A.

Donald Dewar Macdonald, M.A.

Gilbert Buchanan, M.A.

Bryce MacFarlane, M.A.

Robert Baillie Douglas, M.A.

John M'Gilchrist, M.A.

Robert Fulton, M.A.

James Hair Maclean, M.A.

David Scribner Merrow, M.A.

Adam Nelson, M.A.

James Moffatt, M.A.

John Hamilton Pagan, M.A.

John Morrison, M.A.

David Young, M.A.

*April, 1894.*

Julius M'Callum, M.A.

SECOND DEPARTMENT.

*April, 1894.*

Hector Maiben Adam, M.A.  
Robert Fulton, M.A.  
David Scribner Merrow, M.A.  
John Morrison, M.A.  
Donald Dewar Macdonald, M.A.

Bryce MacFarlane, M.A.  
John M'Gilchrist, M.A.  
Adam Nelson, M.A.  
John Hamilton Pagan, M.A.  
David Young, M.A.

## II. FOR DEGREE OF M.A.

## OLD REGULATIONS.

## 1. IN CLASSICAL LITERATURE.

*October, 1893.*

Bauchop, Jeffrey Drummond.  
Bryson, Andrew.  
Cadenhead, David Graham.  
Campbell, Joseph.  
\*Cumming, William.  
\*Dick, James.  
Dow, Donald Nicol (I. Hon.).  
Duke, John Alex.  
Edwards, John.  
Ferguson, Daniel.  
Fraser, William (Aberdeen).  
Hair, James.  
Hanks, William Parker.  
Hardie, Robert.  
Leitch, John Wilson.  
\*Lindsay, William Anderson.  
Lorimer, William.  
Lusk, William.

Middleton, John.  
\*Miller, William Charles.  
Mitchell, Robert Carmichael.  
Muir, Robert.  
Murdoch, Andrew Dykes.  
M'Kechnie, Henry Donald.  
MacKenzie, Duncan.  
M'Millan, George Arthur.  
M'Millan, William Seymour.  
Richmond, John Mair.  
Robertson, Andrew (II. Hon.).  
Saunders, Thomas.  
Simpson, Robert.  
Stanton, Thomas Jack.  
Thomson, Charles William (I. Hon.).  
Turner, David Balfour.  
Walker, Robert.  
Willans, William.

*April, 1894.*

Clark, Dugald.  
Dodd, William George.  
Leys, Norman M'Lean.  
Martin, Thomas.

Macleroy, Campbell Macqueen (I. Hon.).  
M'Murtrie, James.  
Ruggan, John.  
Watson, William.

## 2. IN MENTAL PHILOSOPHY.

*October, 1893.*

Alexander, Gilchrist Gibb (I. Hon.).  
Caunter, William Philip Edward.  
Couper, Peter.  
Dewar, James.  
Fraser, Alexander.  
Gardner, James Wilson.  
Granger, James Parlane.  
Hill, David Arrot.  
Holburn, James.  
Horne, Robert Stevenson (I. Hon.).  
Houston, Robert Lyle.  
Jenkins, Hugh.  
Johnston, Gilbert.

Johnston, James Herbert Orrock.  
Motherwell, James Stuart.  
M'Lachlan, Andrew.  
Nisbet, Robert George.  
Orr, Richard.  
Paterson, Thomas.  
Ramsay, William Livingston.  
Reid, Edward Thomas Scott.  
Shaw, John.  
Wallace, Edward Hamilton.  
Wilson, Robert.  
Yuille, George Simpson.

\* Students whose names are marked with an asterisk distinguished themselves in the Examination.



*April, 1894.*

Adam, James.  
 Adam, Thomas.  
 Bain, George.  
 Beaton, Donald M.  
 Blue, Alexander W.  
 Brown, Laurence R.  
 Campbell, Henry J.  
 Charteris, Archibald H.  
 Crawford, John.  
 Cross, William.  
 Cumming, William.  
 Cunningham, John F.  
 Davidson, James.  
 Dick, James.  
 Eadie, James.  
 Ferguson, Daniel.  
 Fulton, John.  
 Gardner, George.  
 Girvan, William.  
 Goodman, Hyam.  
 Govan, Robert S.  
 Harvie, William D.  
 Henderson, Ephraim M.  
 Higgins, James A.  
 Hill, Alexander M.  
 Hood, Joseph.  
 Hunter, Archibald.  
 Kelly, William.  
 King, Angus.  
 Knox, James.  
 Lennox, David N.  
 Mitchell, Ebenezer.  
 Mitchell, William C.  
 Morrison, William.  
 Muir, Joseph.  
 Murray, Samuel J.  
 M'Callum, Archibald.

M'Curtain, David H.  
 M'Ewing, Samuel H.  
 M'Gregor, Donald S.  
 MacInnes, Donald J.  
 M'Leod, Alexander.  
 M'Pherson, George.  
 M'Queen, Adam M.  
 Napier, Thomas M.  
 Pattison, Robert.  
 Pollock, Robert C.  
 Pringle, Peter D.  
 Richmond, John M.  
 Robertson, Andrew.  
 Robertson, Laurence V. G.  
 Ross, Duncan.  
 Ruggan, John.  
 Russell, William Y.  
 Saunders, Thomas.  
 Scott, James.  
 Service, William J. N.  
 Simpson, Robert.  
 Sinclair, John.  
 Smith, James W.  
 Smith, William C.  
 Stirton, John.  
 Swan, David.  
 Taylor, Alexander O.  
 Thomson, Hector M.  
 Tripney, David.  
 Tulloch, John L.  
 Turner, David B.  
 Watchman, James.  
 Watson, William.  
 Williamson, Henry A.  
 Wotherspoon, James.  
 Wright, Alexander M.

## 3. IN MATHEMATICS AND NATURAL PHILOSOPHY.

*October, 1893.*

Barclay, David Yate.  
 Bardwell, Foster Henry.  
 Blue, William.  
 Brown, Edward.  
 Cairncross, Thomas Scott.  
 Campbell, Andrew.  
 Craig, John Baillie.  
 Dewar, James.  
 Eadie, James.  
 Fergusson, David.  
 Fleming, Alfred James.  
 Garden, John Andrew.

Gibson, Laurence Miller.  
 Howell, Alexander Rutherford.  
 Miller, John Harry.  
 Morris, Richard.  
 Nisbet, Robert George.  
 Paterson, James Charles.  
 Patrick, Andrew.  
 Scotland, Robert Moffat.  
 Sneddon, George Thomas.  
 Stewart, Frederick Richardson.  
 Templeton, William Sandilands  
 (I. Hon.).

*April, 1894.*

Brown, Laurence R.  
 Carruthers, Thomas.  
 Crum, John George.  
 Davidson, James.  
 Dodd, William George.  
 Duke, John Alexander.  
 Fairgrieve, Mungo M.  
 Fulton, John.  
 Gardner, James Wilson.  
 Gilchrist, Andrew S.  
 Govan, Robert S.  
 Gray, James N.  
 Gray, John.  
 Henderson, Ephraim M.  
 Hill, Alexander M.  
 Hill, David A.  
 Hunter, Archibald.  
 Johnston, Gilbert.  
 Jones, Thomas Wedros.  
 King, Angus.  
 Lamb, George.  
 Lusk, William.  
 Miller, John.  
 Moffat, James.  
 Morrison, David.  
 Morrison, William.  
 Muirhead, William.  
 M'Callum, Archibald.  
 Macdonald, Ranald.

M'Millan, William S.  
 M'Murtrie, James.  
 Peebles, Guy Steel.  
 Pringle, Peter D.  
 Ramsay, William.  
 Robertson, Andrew.  
 Robertson, David.  
 Ruggan, John.  
 Scott, James.  
 Scott, John Charles.  
 Scott, Thomas.  
 Service, William J. N.  
 Shaughnessy, John.  
 Shillinglaw, Joseph.  
 Simpson, John.  
 Simpson, Robert.  
 Skeoch, William R.  
 Smith, Alexander.  
 Smith, John.  
 Smith, William Campbell.  
 Stirton, John.  
 Stobo, John.  
 Sutherland, Duncan M.  
 Taylor, Alexander O.  
 Tulloch, John L.  
 Watson, William.  
 Williamson, Henry A.  
 Wotherspoon, James.

### NEW REGULATIONS.

#### A.—LANGUAGE AND LITERATURE.

##### LATIN.

*October, 1893.*

Brailsford, Henry Noel (II. Hon.).  
 \*Cockburn, Francis Montague.  
 Craik, David.  
 Cunningham, George.  
 Darroch, Neil Donald.  
 Dunlop, Charles Robertson.  
 Fulton, William Wylie.

Kinnis, James Cairns.  
 Morison, John Lyle.  
 Murray, William Meikle.  
 M'Clure, Charles Russell.  
 Pollock, James.  
 Ramsay, John Maclean.  
 Stewart, Adam Bell.

*April, 1894.*

Adam, James.  
 Anderson, Archibald.  
 Baird, James Wm.  
 Blair, Sarah Logan.  
 Bowie, Robert.  
 Brash, John.  
 Cameron, Duncan.  
 Crichton, Marion Macfarlane.  
 Cuthbert, Charles Campbell.

Dick, William Carson.  
 Douglas, George Sharp.  
 Edgar, John.  
 Fraser, Ebenezer Hugh.  
 \*Hay, Grace Foulis.  
 \*Henderson, James Ewart.  
 Hepburn, Percy.  
 Howie, Robert (Pollokshields).  
 Liddell, James Grant.

\*Students whose names are marked with an asterisk distinguished themselves in the Examination

Liddle, David Fraser.  
 Lochhead, John.  
 Marr, James.  
 Martin, Allan.  
 Martin, Robert Howie.  
 Martyn, Harry Somerville.  
 Millar, James.  
 Mitchell, James Donald.  
 Murray, George.  
 M'Cormick, John Archibald.  
 Mackellar, John A. Coull.  
 M'Laren, Thomas.  
 Patrick, James William.

Phillips, William.  
 Preston, David.  
 Ross, Neil.  
 Rutherford, Helen.  
 Stewart, Andrew.  
 Stewart, John.  
 Turner, Robert Lister.  
 Tweeddale, David Hannington.  
 Watson, Allan Macnab.  
 White, Joseph.  
 Wilkie, Arthur West.  
 Wilson, Robert.

## GREEK.

October, 1893.

Brailsford, Henry Noel (II. Hon.).  
 Cockburn, Francis Montague.  
 Cunningham, George.  
 Fulton, William Wylie.  
 Jordan, William.  
 Kinnis, James Cairns.

Morison, John Lyle.  
 Murray, William Meikle.  
 \*Pollock, James.  
 Ramsay, John Maclean.  
 Reid, James Alexander.

April, 1894.

Adam, James.  
 Baird, James William.  
 Baird, Thomas.  
 Brash, John.  
 Cameron, Duncan.  
 Cuthbert, Charles Campbell.  
 Edgar, John.  
 Fraser, Ebenezer Hugh.  
 Hepburn, Percy.  
 Lochhead, John.  
 Marr, James.  
 Martin, Allan.

Mitchell, James Donald.  
 Murray, George.  
 M'Clure, Charles Russell.  
 M'Cormick, John Archibald.  
 M'Onat, Murdoch.  
 Preston, David.  
 Stewart, John.  
 Tweeddale, David Hannington.  
 White, Joseph.  
 Wilson, James.  
 Wilson, Robert.

## ENGLISH.

October, 1893.

Bannatyne, Andrew Stirling.  
 Blacklock, Isabella.

Lang, Norman Macleod.  
 Middleton, Arthur Stanley.

April, 1894.

Bell, W. Gregory.  
 Cockburn, Francis M.  
 Copeland, James W.  
 Cowan, James D.  
 Cumming, John.  
 Cunningham, George.  
 Fleming, David P.  
 Fulton, John W.  
 Gowans, Adam L.  
 Hodge, Harry.  
 Kinnis, James C.  
 Mathieson, Roderick M.  
 Menzies, Joseph H.  
 Morison, John L.  
 M'Intyre, John E.  
 M'Jannett, Jane R. S.

Ramsay, John M.  
 Reid, James A.  
 Scott, Andrew Boyd.  
 Selkirk, William A. R.  
 Somerville, Munro.  
 Stewart, John (Coatbridge).  
 Stewart, William.  
 Taylor, Elizabeth P.  
 Templeman, James M.  
 Thomson, John S.  
 Wallace, John.  
 Wark, John L.  
 Wells, Alexander S.  
 White, Robert G.  
 Young, George G. B.  
 Young, John.

## FRENCH.

*April*, 1894.

M'Jannett, Jane R. S.

Taylor, Elizabeth P.

*B.—MENTAL PHILOSOPHY.*

## LOGIC AND METAPHYSICS.

*April*, 1894.

Baird, Thomas.  
 Bell, William G.  
 Blair, Sarah L.  
 Cockburn, Francis M.  
 Copeland, James W.  
 Craik, David.  
 Cumming, John.  
 Fleming, David P.  
 Fleming, Norman.  
 Gillies, William K.  
 Gowans, Adam L.  
 Hodge, Harry.  
 Johnston, James A.  
 Kinnis, James C.  
 Lowson, Peter.  
 Martin, Alexander J.  
 Miller, William J. S.  
 Morison, John L.

Murray, William M.  
 M'Cracken, William R.  
 MacNaughtan, William.  
 MacRobert, Alexander M.  
 Parkin, William L.  
 Ramsay, John M.  
 Reid, William.  
 Scott, Andrew B.  
 Shearer, James.  
 Skilling, James L.  
 Somerville, Munro.  
 Stevenson, David.  
 Stewart, John (Bute).  
 Stewart, John (Coatbridge).  
 Templeman, James M.  
 Wallace, John.  
 Wark, John L.

## MORAL PHILOSOPHY.

*October*, 1893.

Young, John.

*April*, 1894.

Adams, George S.  
 Anderson, Thomas R.  
 Bannatyne, Andrew S.  
 Bayne, Alexander.  
 Boyd, William.  
 Brailsford, Henry N.  
 Cowan, James D.  
 Gillespie, James.  
 Gillies, William K.  
 Howie, Robert (Dreghorn).

Jordan, William.  
 Matheson, Roderick M.  
 Middleton, Arthur S.  
 M'Intyre, John E.  
 Reid, James A.  
 Stewart, John (Bute).  
 Thomson, James (Hillhead).  
 Webster, David G.  
 Wells, Alexander S.  
 Whyte, Robert O.

*C.—SCIENCE.*

## MATHEMATICS.

*October*, 1893.

Anderson, Thomas R.  
 Dick, Charles.  
 Dunlop, Charles R.  
 Howie, Robert (Dreghorn).  
 Morison, John L.

Murray, George.  
 Stewart, William.  
 Thomson, John Scoular.  
 Whyte, Robert O.

*April*, 1894.

Aitken, George J.  
 Anderson, Robert P. R.

Bayne, Alexander.  
 Blacklock, Isabella.

Blair, David L.  
 Blair, Sarah L.  
 Brailsford, Henry N.  
 Brash, John.  
 Cockburn, Francis M.  
 Copeland, James W.  
 Cumming, John.  
 Cunningham, George.  
 Darroch, Neil D.  
 Dock, George.  
 Edgar, John.  
 Fleming, Norman.  
 Fulton, John W.  
 Fulton, William.  
 Harkness, John.  
 Helme, William J. C.  
 Jeffrey, John.  
 Ker, James C.  
 Liddell, James G.  
 Liddle, David F.  
 Marr, James.  
 Martin, Alexander J.  
 Martin, Allan.  
 Martyn, Harry S.  
 Miller, William J. S.  
 Murray, William M.  
 M'Ewan, Robert.  
 M'Jannett, Jane R. S.  
 Mackellar, John A. C.  
 Mackenzie, William S.

M'Laren, Thomas.  
 Maclean, James A.  
 MacRobert, Alexander M.  
 Nelson, Thomas.  
 Ogilvy, John U.  
 Parkin, William L.  
 Patrick, James W.  
 Ramsay, John M.  
 Reid, William.  
 Ross, John J.  
 Scott, Andrew B.  
 Scott, Gavin.  
 Shearer, James.  
 Somerville, Munro.  
 Stewart, Andrew.  
 Stewart, John (Coatbridge).  
 Taylor, Elizabeth P.  
 Templeman, James M.  
 Tennent, Robert.  
 Thomson, James (Glasgow).  
 Turner, Robert L.  
 Walker, James.  
 Walker, Thomas M.  
 Wark, John L.  
 Watson, Frederick A.  
 Wells, Alexander S.  
 White, Robert G.  
 Wilson, James Bald.  
 Young, George G. Blyth.

## NATURAL PHILOSOPHY.

*October, 1893.*

Stewart, John (Bute).

*April, 1894.*

Cumming, John.  
 Fulton, William Wylie.  
 Gillespie, James.  
 Howie, Robert (Dreghorn).

Middleton, Arthur S.  
 Reid, James A.  
 Stewart, Adam B.  
 Webster, David G.

*D.—HISTORY AND LAW.*

ROMAN LAW.

*April, 1894.*

Bannatyne, Andrew S.

Stewart, William.

## III. FOR DEGREES IN LAW.

## I. FOR DEGREE OF LL.B.

## 1. IN CIVIL LAW.

*October, 1893.*

Lumsden, Harry, M.A.

Maclachlan, Hugh D.C., M.A.

*April, 1894.*

Lamond, Robert, M.A.

Macfie, Samuel, M.A.

Morrison, Archibald C., M.A.

Robertson, James D., M.A.

M'Callum, Julius F., M.A.

Skinner, William G., M.A.

Taylor, Alexander, M.A.

## 2. IN LAW OF SCOTLAND.

*October, 1893.*

Findlay, James Crawford, M.A.		Morrison, Archibald C., M.A.
Hamilton, Alex. Mitchell, M.A.		Macnaughtan, Joseph, M.A.

*April, 1894.*

Macfie, Samuel, M.A.		M'Kechnie, Henry D., M.A.
		Scobie, Alfred, M.A.

## 3. IN CONVEYANCING.

*October, 1893.*

Lumsden, Harry, M.A.		MacLachlan, Hugh D. C., M.A.
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*April, 1894.*

M'Callum, Julius F., M.A.		M'Kechnie, Henry D., M.A.
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## 4. IN PUBLIC LAW.

*October, 1893.*

Findlay, James Crawford, M.A.		Morrison, Archibald C., M.A.
		Macnaughtan, Joseph, M.A.

*April, 1894.*

M'Callum, Julius F., M.A.		Scobie, Alfred, M.A.
Robertson, James D., M.A.		Skinner, William G., M.A.

## 5. IN CONSTITUTIONAL LAW AND HISTORY.

*April, 1894.*

Campbell, Walter A., M.A.		Lamond, Robert, M.A.
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## 6. IN MEDICAL JURISPRUDENCE.

*October, 1893.*

Findlay, James Crawford, M.A.		Lumsden, Harry, M.A.
Hamilton, Alex. Mitchell, M.A.		Macnaughtan, Joseph, M.A.

*April, 1894.*

Campbell, Walter A., M.A.		M'Kechnie, Henry D., M.A.
Morrison, Archibald C., M.A.		Taylor, Alexander, M.A.

## II. FOR DEGREE OF B.L.

## 1. IN LATIN.

*October, 1893.*

Miller, James Taylor.

*April, 1894.*

Wilson, John.

## 2. IN GREEK.

## 3. IN LOGIC.

*October, 1893.*

Nimmo, Andrew Reid.

*April, 1894.*

Denovan, Robert.		Todd, John Jamieson.
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## 4. IN MORAL PHILOSOPHY.

*October, 1893.*

Gentles, Norman.

*April, 1894.*

Brown, Charles William.		Stiell, John Semple.
Buchanan, Robert Mack.		Tennent, James Hill.

Todd, John Aiton.



## 5. IN ENGLISH LITERATURE.

*October*, 1893.

Kerr, James Dickson.

M'Fadyen, Archibald.

*April*, 1894.

Denovan, Robert.

## 6. IN MATHEMATICS.

*October*, 1893.

Todd, John Aiton.

*April*, 1894.

Brown, John.

## 7. IN NATURAL PHILOSOPHY.

## 8. IN FRENCH.

*October*, 1893.

Wilson, John.

Young, Alexander Waddell.

*April*, 1894.

Duncan, Thomas.

## 9. IN GERMAN.

## 10. IN CIVIL LAW.

*October*, 1893.

Edington, Patrick F. W.

Lumsden, Harry, M.A.

*April*, 1894.

Dunlop, George.

Harvey, Francis William.

M'Clure, Robert Wilson.

## 11. IN LAW OF SCOTLAND.

*October*, 1893.

Dennison, Jerome.

Dunlop, George.

*April*, 1894.

Barrie, Thomas T.

Dunlop, Edward.

Campbell, Archibald.

Graham, William.

Nelson, Walter.

## 12. IN CONVEYANCING.

*October*, 1893.

Dunlop, George.

Edington, Patrick F. W.

Lumsden, Harry, M.A.

*April*, 1894.

Harvey, Francis William.

Hay, Robert Blair.

M'Clure, Robert Wilson.

## 13. IN PUBLIC LAW.

## 14. IN CONSTITUTIONAL LAW AND HISTORY.

*April*, 1894.

Archibald Campbell.

## 15. IN MEDICAL JURISPRUDENCE.

*October*, 1893.

Dennison, Jerome.

Dunlop, George.

*April*, 1894.

Barrie, Thomas T.

Graham, William.

## 16. IN POLITICAL ECONOMY.

*April*, 1894.

Dunlop, Edward.

Hay, Robert Blair.

## IV. FOR DEGREE OF B.Sc.

**OLD REGULATIONS.**

IN ZOOLOGY.

*April, 1894.*

Hunter, Ramsay.

| M'Cartney, Robert T.

IN GEOLOGY.

*October, 1893.*

M'Dougall, Alexander, M.A.

*April, 1894.*

Hunter, Ramsay.

IN CHEMISTRY.

*April, 1894.*

Colquhoun, Walter, M.A.

IN LOGIC.

*April, 1894.*

Ellis, Thomas.

**REGULATIONS OF 1885.**

A. IN BIOLOGICAL SCIENCE.

SECOND EXAMINATION—ZOOLOGY, BOTANY.

*April, 1894.*

Farquharson, Alexander C., M.D.

THIRD EXAMINATION—ANATOMY, PHYSIOLOGY.

*October, 1893.*

Wallace, Herbert Kidson.

FINAL EXAMINATION—PHYSIOLOGY.

*October, 1893.*

Wallace, Herbert Kidson.

B. IN PHYSICAL SCIENCE.

FINAL EXAMINATION—CHEMISTRY.

*October, 1893.*

Clark, John.

| Wingate, Hamilton M.

C. IN ENGINEERING SCIENCE.

MATHEMATICS.

*April, 1894.*

Guthrie, Alexander G. G.

NATURAL PHILOSOPHY.

*October, 1893.*

Taylor, David G.

| Workman, Harold.

*April, 1894.*

Brownlee, Hugh R.

**REGULATIONS OF 1890.**

A. IN NATURAL SCIENCE.

FIRST EXAMINATION—PORTION—CHEMISTRY, BOTANY, ZOOLOGY.

*October, 1893.*

Craig, Peter L. L., M.A.

| Macewen, John A. C.

Hunter, Thomas, M.A.

| Macnair, Norman.

Lean, George.

| Primrose, Edward J., M.A.

Wilson, Andrew C.

*April, 1894.*

Stanford, Charles E. C. | Wingate, Thomas P.

SECOND EXAMINATION—ANATOMY, PHYSIOLOGY.

*October, 1893.*

Robertson, Jas. Currie, M.A. (Hon.). | Young, Archibald.

*April, 1894.*

Craig, Peter L. L., M.A.

SECOND EXAMINATION—CHEMISTRY, EXPERIMENTAL PHYSICS.

*April, 1894.*

Anderson, William Carrick, M.A.

B. IN ENGINEERING SCIENCE.

MATHEMATICS.

*October, 1893.*

Adam, Matthew A.

Bain, Alexander.

Brown, William A.

Dittmar, August.

Goudie, William J.

Keith, James.

Mollison, Hector A.

*April, 1894.*

Alexander, William.

Blair, George.

Hamilton, William.

Morrison, William.

Shearer, George W.

Sloan, John A.

NATURAL PHILOSOPHY.

*October, 1893.*

Gray, John.

Keith, James.

Mackillop, Gardiner H.

*April, 1894.*

Hamilton, Patrick.

Hamilton, William.

Mollison, Hector A.

MacIlwaine, John E.

M'Neil, Charles.

Shearer, George W.

Sloan, John A.

CHEMISTRY.

*October, 1893.*

Coats, Allan.

Gardner, Stanley J.

Milroy, Samuel.

Mackillop, Gardiner H.

Maclaren, Archibald F.

Stewart, Walter, M.A.

White, Hedley.

Yamamoto, Nagakata.

*April, 1894.*

Brown, William A.

Paterson, Joseph B.

CIVIL ENGINEERING AND MECHANICS.

*April, 1894.*

Adam, Matthew A.

Aitken, Thomas M.

Cassells, Robert D.

Craig, Alexander G.

Dickson, James M.

Ferguson, Homer L.

Gray, John.

Hamilton, Patrick.

Malcolm, John.

Mathieson, Thomas O.

Mollison, Hector A.

MacIlwaine, John E.

Macmillan, Campbell (Honours).

M'Neil, Charles.

Orr, John.

Shearer, George W.

Sloan, John A.

Williams, Llewellyn W.

Yamamoto, Nagakata.

Zahm, Frank B.

## ENGINEERING DRAWING AND CALCULATIONS.

*October, 1893.*

Hamilton, Patrick.

Williams, Llewellyn W.

*April, 1894.*

Aitken, Thomas M.

Macmillan, Campbell.

Blair, George.

M'Neil, Charles.

Brown, William A.

Orr, John.

Cassells, Robert D.

Paterson, Joseph B.

Dittmar, August.

Shearer, George W.

Gray, John.

Sloan, John A.

Morrison, William.

Stewart, Walter, M.A.

## NAVAL ARCHITECTURE.

*October, 1893.*

Adam, Matthew A.

Malcolm, John.

Denny, Leslie.

M'Neil, Charles.

Jackson, William.

Reid, John.

Yamamoto, Nagakata.

*April, 1894.*

Aitken, Thomas M.

Hamilton, Patrick.

Cassells, Robert D.

MacIlwaine, John E.

Crawford, James B.

Shearer, George W.

Ferguson, Homer L.

Sloan, John A.

Gray, John.

Zahm, Frank B.

## GEOLOGY.

*October, 1893.*

Alexander, William.

Morrison, William.

Gourlay, Charles.

Mackillop, Gardiner H.

*April, 1894.*

Craig, Alexander G.

Stewart, Walter, M.A.

## NEW REGULATIONS.

## A. IN PURE SCIENCE.

## FIRST SCIENCE EXAMINATION—PORTION.

*April, 1894.*

Currie, John Ronald, M.A. (Zoology).

## B. IN ENGINEERING.

FIRST SCIENCE EXAMINATION—MATHEMATICS, NATURAL PHILOSOPHY,  
CHEMISTRY.*October, 1893.*

Whyte, Adam G.

## FIRST SCIENCE EXAMINATION—PORTION.

*April, 1894.*

Holm, James, M.A. (Chemistry).

Nutting, Daniel C. (Natural Philosophy).

Powelson, Wilfred V. N. (Natural Philosophy).

## V. FOR DEGREES OF M.B., CH.B.

## FIRST PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (B., Botany; Z., Zoology; P., Physics; C., Chemistry):—

*October, 1892.*

Allan, Alexander Smith (P.).	Macdonald, Murdoch (P.).
Alston, Ian George Patrick (B., Z.).	M'Indoe, Wm. Findlay (B., P.).
Coats, George William (B., Z.).	Smith, David Steele (B., P.).
Cole, George Jones (B., P.).	Walker, William J. Alex. (B., P.).
Green, James Garden (B., Z.).	Watson, William (B., P.).
Hunter, William Birth (P.).	Watt, Ernest (B., P.).
Liston, William Glen (B., P.).	Wyper, William (Z.).
Lunan, Robert (B., P.).	Young, David John (B., P.).
Milne, Ernest Wardlaw (B., P.).	

*April, 1893.*

Allan, Alexander Smith (B.).	M'Queen, James, M.A. (Z., P.).
Blair, George MacLellan (B., P.).	M'Whir, James (Z., P.).
Burns, William Adam (B., P.).	Simpson, John Laird (B., P.).
Cairns, David Louis (Z., C.).	Sloan, Samuel Macfarlane (Z., C.).
Carswell, Robert, M.A. (Z., P.).	Smith, Andrew James (B., C.).
Charteris, Francis James (Z., C.).	Smith, Jessie H. (P., C.).
Cochran, James Duncan (Z., C.).	Strang, James (Z.).
Findlay, Walter Scobie, M.A. (Z., P.).	Swan, Douglas (P., C.).
Gardner, Mary (P., C.).	Taylor, Matthew Logan (B., P.).
Macdonald, Murdoch (B.).	Wylie, Robert (Z., P.).
M'Kinlay, Dugald (Z., P.).	Wyper, William (B.).

*October, 1893.*

Aitken, John (B., P.).	Gardner, Mary (B., Z.).
Alexander, George (Z., P.).	Garvie, Thomas B. (B., Z., P., C.).
Allan, Alexander Smith (Z., C.).	Harrison, Lawrence W. (B., Z., P., C.).
Alston, James (B., Z., P., C.).	Heap, Harold Smith (B., P.).
Ballantyne, Arthur James (B., P.).	Hunter, Thomas, M.A. (B., Z., P., C.).
Bennett, Daisy A. (Z., P.).	Irvine, George, M.A. (P.).
Beveridge, James Symond (B., Z.).	Jersey, Ernest F. Lionel de (Z., C.).
Boleyn, John George W. (B., Z., P.).	Jubb, Archibald (B., P.).
Broadway, Theodore B. (B., Z., P., C.).	Lawrie, Alexander (P., C.).
Buchan, John James (B., Z.).	Lindsay, Alexander Millar (B., P.).
Burns, William C. (B., Z., P., C.).	Lindsay, William M. (B., Z., P., C.).
Cairns, David Louis (B., P.).	Little, John Watson (B., Z.).
Campbell, Ranald Douglas (B., Z.).	Lorimer, Jane (B., Z.).
Carswell, Robert, M.A. (B., C.).	Love, Andrew (B., P.).
Cassells, Alex. Henderson (B., P.).	Lunan, Robert (Z.).
Charteris, Francis James (B., P.).	Mitchell, James Alex. (B., P.).
Clark, Daisy A. M. (B., Z., P.).	Macdonald, John (B., Z., P., C.).
Clark, George (B., C.).	Macfarlane, Minna A. (B., Z.).
Clarke, Joseph Adam (B., Z., P., C.).	M'Haffie, James (B., Z., P., C.).
Coats, George (B., Z., P., C.).	M'Indoe, Wm. Findlay (Z., C.).
Coats, George William (P., C.).	M'Kail, David (B., Z., P., C.).
Cochran, James Duncan (B., P.).	M'Kendrick, Anderson G. (B., Z.).
Cole, George Jones (Z., C.).	Mackenzie, Laurence A. (B., C.).
Corbett, Joseph Muir (B., Z., P., C.).	Macnair, Alfred Duncan (B., P.).
Crerar, William (B., P.).	M'Neill, Margaret E. (B., Z.).
Crow, John (Z., P.).	Macnicol, Roderick Reid (B., Z.).
Douglas, Robert, M.A. (B., P.).	M'Queen, James, M.A. (B., C.).
Dunlop, Binnie (B., Z.).	M'Whir, James (B., C.).
Findlay, Walter Scobie, M.A. (B., C.).	Neill, William Gardner (B., P.).
Fleming, James Finlayson (P., C.).	Nicolson, Alex. D. (B., Z., P., C.).
Forrester, Adrian A. (B., Z., P., C.).	Niven, Robert (P.).

Ormond, James S. (B., Z., P., C.).  
 Prowse, Jean Effie (B., Z.).  
 Reid, John (B., C.).  
 Robson, Agnes R. (B., Z., P.).  
 Scanlan, Daniel (Z., P.).  
 Scott, James (B., P.).  
 Scott, Joseph Wilkie (B., P.).  
 Scott, N. E. H. (B., Z., P., C.).  
 Scott, Robert (B., Z., P., C.).  
 Simon, David Ap (B., Z.).  
 Simpson, John Laird (Z., C.).  
 Sloan, Alex. B. (B., Z., P., C.).  
 Sloan, John Macfarlane (B., P.).  
 Smith, Catherine Love (Z., C.).  
 Smith, David Steele (Z., C.).

Smith, Jessie H. (B., Z.).  
 Stewart, John M'C. (B., Z., P.).  
 Strang, James (B., P., C.).  
 Sutherland, Don. S. (B., Z., P., C.).  
 Swan, Douglas (B., Z.).  
 Thomas, Daniel R. (B., Z., P., C.).  
 Thomson, Walter L. (B., Z., P., C.).  
 Turner, Henry N. (B., Z., P., C.).  
 Walker, William J. A. (Z., C.).  
 Watson, William (Z., C.).  
 Watt, Ernest (Z., C.).  
 Wilson, James Patterson (B., P.).  
 Witherspoon, J. (B., Z., P., C.).  
 Wyper, William (P., C.).  
 Young, David John (Z., C.).

*March, 1894.*

Aird, John (P., C.).  
 Bain, James (Z.).  
 Ballantyne, Robert Fisher (Z., C.).  
 Barrowman, James (Z., C.).  
 Bennett, William (Z., C.).  
 Benson, William Arthur (B., Z.).  
 Blair, George MacLellan (Z., C.).  
 Boleyn, John George Wilson (C.).  
 Boyes, Auguste (B., Z., P., C.).  
 Brunton, John (Z., C.).  
 Burns, William Adam (Z., C.).  
 Carruthers, James, M.A. (B., Z.).  
 Clark, Andrew (P., C.).  
 Clark, Daisy A. Murdoch (C.).  
 Clark, George (Z., P.).  
 Crawford, Robert (B., Z., P., C.).  
 Crow, John (B., C.).  
 Cullen, John (B., Z.).  
 Davie, John Lithgow (Z., C.).  
 Drummond, James (B., Z.).  
 Findlay, James Fulton (B., P.).  
 Fleming, James Finlayson (B., Z.).  
 Fletcher, Duncan Johnston (Z., P.).  
 Garrow, Alexander (Z., C.).  
 Gibson, William (B., P.).  
 Grant, Jane (P., C.).  
 Green, James Garden (P., C.).  
 Jersey, Ernest F. Lionel de (B., P.).  
 Jubb, Archibald (Z., C.).  
 Lindsay, Alexander Millar (Z., C.).  
 Liston, William Glen (Z., C.).  
 Little, John Watson (P., C.).  
 Longmire, Mary (Z., C.).  
 Lunan, Robert (C.).

Mather, William Maxwell (P.).  
 Milne, Ernest Wardlaw (Z., C.).  
 Moore, Samuel Johnston (Z., C.).  
 Myhre, Karen M. (B., Z., P., C.).  
 M'Call, Eva (P., C.).  
 Macdonald, Murdoch (Z., C.).  
 M'Dougall, James W. (Z., C.).  
 Macewan, Archibald T. (B., Z.).  
 M'Kendrick, Anderson G. (P., C.).  
 Mackenzie, Laurence A. (Z., P.).  
 M'Neil, Margaret W. H. (P., C.).  
 M'Neill, Margaret E. (P., C.).  
 Pearce, Percival Leslie (Z., C.).  
 Poulter, Mabel C. (P., C.).  
 Prowse, Jean Effie (P., C.).  
 Rennie, Robert (B., Z.).  
 Robson, Agnes Renton (C.).  
 Ross, Maria J. (B., Z., P., C.).  
 Shaw, John, M.A. (P.).  
 Sloan, John Macfarlane (Z., C.).  
 Sloan, Samuel Macfarlane (B., P.).  
 Smith, James (B.).  
 Spencer, Maud (B., Z.).  
 Stewart, Frederick R. (Z., P.).  
 Stewart, John M'Callum (C.).  
 Stiell, Agnes Lillias (P., C.).  
 Strachan, Peter D., M.A. (Z., P.).  
 Taylor, Andrew (B., P.).  
 Taylor, Matthew Logan (Z., C.).  
 Thompson, Alex. Dey (Z., C.).  
 Webster, William (B., P.).  
 Weir, Edward R. (B., Z., C.).  
 Whiteford, Sara (Z., C.).  
 Williams, Morgan Watkin (Z.).

EXAMINATION FOR CANDIDATES FOR THE ARMY.

IN LOGIC.

*April, 1894.*

Miller, David Skinner.



## PRELIMINARY EXAMINATION FOR DEGREES IN ARTS AND SCIENCE.

The following candidates passed in the subjects appended to their names :—  
*April*, 1893 (Supplementary, in terms of Ordinance No. 44, §§ III. and XII).

Carruthers, Arthur Beattie (H. Latin, H. Greek).

Crawford, David (H. Latin, L. Greek).

Haran, Thomas Smith (H. Latin, H. Greek).

Kelly, Andrew M'Clanachan (English).

White, Robert George (L. Greek).

*October*, 1893.

Abernethy, William (English, L. Math., Dynamics).

Adam, James (H. Greek).

Aitken, George J. (H. Latin, Dynamics).

Allan, Alexander (L. Math.).

Anderson, Archibald (L. Math., H. Latin).

Anderson, Robert P. R. (English).

Arroll, Walter (English, H. Math., Dynamics).

Auchinachie, Alexander (English, L. Math., H. Latin, L. Greek).

Auchinachie, Peter (English, L. Math., H. Latin).

Bain, Alexander (L. Latin).

Baird, Thomas (H. Latin, H. Greek, Dynamics).

Bayne, Alexander (English, H. Math., L. Latin, Dynamics).

Beith, Peter (English, L. Latin).

Bell, Andrew (English).

Bell, Robert D. (English, H. Math., H. Latin, H. Greek).

Bennett, Thomas (L. Math.).

Black, William (L. Math.).

Blythe, Walter (L. Latin, Dynamics).

Bottomley, James F. (H. Math.).

Brown, James L. (English, L. Math.).

Brown, John (L. Latin, L. Greek).

Brownlie, John (English, L. Greek).

Burr, Robert A. (English, L. Math., L. Latin).

Cameron, Duncan (H. Latin, H. Greek).

Candlish, Robert (English, L. Math., H. Latin, H. Greek).

Clark, John (H. Latin, H. Greek).

Conacher, John (English, H. Math., L. Latin).

Crawford, David (L. Math., H. Latin, L. Greek).

Crichton, Marion M. (H. Math.).

Dick, Gilbert (English).

Dick, William C. (H. Greek).

Dock, George (H. Greek).

Dougall, Daniel (English).

Douglas, George S. (English, H. Greek).

Dow, William R. (English, L. Math., L. Latin, Dynamics).

Dunn, Andrew (H. Math.).

Fairlie, John M. (L. Latin).

Falconer, John (L. Latin).

Fraser, Ebenezer H. (H. Math.).

Fulton, William (English).

Gaul, Harry (English).

Gilmour, James (Dynamics).

Glen, John (English).

Gourlay, Charles A. (L. Latin).

Grier, George M'Leod (L. Math.).  
Harau, Thomas S. (English).  
Hay, Grace F. (H. Greek).  
Helme, William J. C. (H. Math., H. Greek).  
Henderson, James E. (H. Latin, H. Greek).  
Hotchkis, Denholm (English, L. Math., L. Latin, L. Greek).  
Inglis, John (L. Latin).  
Jack, Robert M. (L. Latin, L. Greek, Dynamics).  
Johnston, James (L. Math.).  
Johnston, James A. (H. Latin, Dynamics).  
Johnston, John B. (L. Math., H. Latin, L. Greek).  
Johnston, John R. (English, L. Math., L. Latin, L. Greek).  
Jones, Thomas E. (English, H. Latin, H. Greek).  
Kelly, Andrew M'C. (English).  
Ker, James C. (H. Greek).  
Knox, Samuel (English).  
Lamont, Donald (L. Greek).  
Lang, George (L. Latin).  
Liddell, James G. (L. Greek).  
Liddle, David F. (L. Greek).  
Lindsay, Walter P. (L. Greek, French).  
Lowson, Peter (L. Latin, Dynamics).  
M'Cracken, William R. (H. Latin, Dynamics).  
M'Donald, John (H. Greek).  
M'Donald, William (L. Latin).  
M'Ewan, Robert (H. Latin, H. Greek).  
Macfarlane, Andrew (English, L. Greek).  
M'Gill, Robert W. (English).  
MacGregor, Hugh (H. Latin).  
M'Jannett, Jane (L. Latin).  
Mackay, Francis (Dynamics).  
M'Kay, Hector W. (L. Math., L. Latin, L. Greek).  
M'Kay, John D. (English).  
M'Kenzie, Charles S. (English, L. Latin, L. Greek).  
M'Kenzie, Ivy (L. Math., L. Greek).  
M'Lennan, Alexander B. (English, Dynamics).  
M'Michael, Thomas (English, L. Math., Dynamics).  
M'Millan, Duncan F. (English, L. Latin).  
M'Millan, Katharine T. (English, L. Math.).  
M'Millan, William S. (English, H. Latin, H. Greek).  
M'Nab, John (L. Latin).  
M'Neill, John C. W. (English, L. Latin, French).  
M'Ouat, Murdoch (H. Math., H. Greek).  
M'Pherson, Charles (L. Latin).  
Mair, James (L. Math.).  
Malloch, Jane E. (L. Greek).  
Marr, James (H. Latin, H. Greek).  
Martyn, Harry S. (English, L. Latin).  
Matheson, Duncan (L. Math., L. Greek).  
Millar, James (H. Latin, L. Greek).  
Monteith, John C. (English, French).  
Montgomerie, David (English, L. Math., L. Latin).  
Montgomerie, William (English, L. Latin).  
Moore, Vere E. (English).  
Morton, David (Dynamics).  
Muir, John (English).

Murdoch, William H. F. (English, Dynamics).  
 Ogilvy, John U. (English, L. Latin).  
 Orr, Robert (L. Math., L. Greek).  
 Paterson, Joseph B. (English).  
 Paton, James B. (English, L. Math., L. Latin, L. Greek).  
 Patrick, James (English, L. Greek).  
 Patrick, James W. (English, H. Latin, L. Greek).  
 Phillips, Henry J. (L. Latin, L. Greek).  
 Pollock, James F. (L. Math., L. Greek).  
 Reid, William (Dynamics).  
 Riddell, Andrew L. (English, L. Math., L. Latin).  
 Robertson, David S. (English, L. Latin).  
 Ross, John J. (H. Greek).  
 Selkirk, William A. R. (English, H. Latin, L. Greek).  
 Shaughnessy, Alexander (L. Latin, L. Greek).  
 Shearer, James (H. Math., Dynamics).  
 Sinton, Alexander (English).  
 Smart, Lewis A. (Dynamics).  
 Smith, David (H. Latin, L. Greek).  
 Stephen, Alexander (English, H. Latin, L. Greek).  
 Stevenson, David (H. Math.).  
 Stevenson, William (H. Latin, H. Greek).  
 Stewart, Andrew (H. Latin, H. Greek).  
 Stewart, John (English, H. Greek).  
 Tannahill, Constance (English, L. Math., L. Latin, Dynamics).  
 Taylor, Andrew B. (English, L. Latin, L. Greek).  
 Templeton, James (Dynamics).  
 Tennent, Robert (L. Latin, L. Greek).  
 Thompson, Alexander D. (English, H. Math., H. Latin, H. Greek).  
 Thomson, William (L. Latin, H. Greek).  
 Turnbull, John (L. Math.).  
 Turnbull, Matthew (English, L. Math.).  
 Turner, Robert L. (English, H. Math., H. Latin, L. Greek).  
 Valentine, George D. (H. Latin, H. Greek).  
 Walker, Archibald C. (H. Math.).  
 Walker, James (H. Math.).  
 Watson, Allan M. (English, L. Math., H. Latin, L. Greek).  
 Watson, Frederick A. (English, H. Math., L. Latin, L. Greek).  
 Watt, Robert (H. Math., H. Latin).  
 Webber, Henry G. (H. Greek).  
 White, Joseph (H. Latin, H. Greek).  
 White, Robert G. (English, H. Math., L. Greek).  
 Whyte, John W. (English, L. Math., L. Latin, L. Greek).  
 Wilson, Alexander (English).  
 Wilson, James (English, L. Math., H. Greek).  
 Wilson, Jane P. (English, L. Latin).  
 Young, Allen Thomson (English).  
 Young, George G. B. (Dynamics).

*April, 1894.*

Abernethy, William (L. Latin).  
 Aitchison, James A. (English, L. Latin).  
 Alexander, James (English, L. Math., L. Latin, Dynamics).  
 Allan, Alexander (English, H. Math., H. Latin, Dynamics).  
 Anderson, Archibald (H. Greek).  
 Arroll, Walter (H. Latin).

Atkinson, Mabel (English, L. Math., French).  
 Bain, Alexander (L. Greek).  
 Baird, William (English, H. Math., H. Latin).  
 Balderston, Margaret W. (English).  
 Bell, Andrew (H. Math., H. Latin, L. Greek).  
 Bell, Robert J. T. (H. Greek).  
 Black, Archibald C. (L. Latin).  
 Black, John A. (L. Greek).  
 Black, John F. (H. Math.).  
 Blyth, Vincent J. (H. Math.).  
 Blythe, Walter (H. Latin, L. Greek, Dynamics).  
 Brown, James L. (L. Latin, L. Greek).  
 Brown, William (L. Math., L. Latin, L. Greek).  
 Brownlie, John (English, H. Math., H. Latin, L. Greek).  
 Burr, Robert A. (H. Latin).  
 Carmichael, Dugald (L. Greek).  
 Carruthers, Arthur B. (English, L. Math., L. Greek).  
 Conacher, John (H. Latin, Dynamics).  
 Core, William (English, L. Math., L. Latin, L. Greek).  
 Coubrough, Anthony C. (English, L. Math.).  
 Craig, James F. (H. Latin, L. Greek).  
 Crum, Alexander W. (English, L. Math., L. Latin).  
 Dawe, John N. (English, H. Math., Dynamics).  
 Dick, Gilbert (English, H. Latin, H. Greek).  
 Dick, William (English, L. Math.).  
 Dickson, Robert M. (H. Math., H. Latin, H. Greek).  
 Douglas, Robert (English, L. Math., H. Latin).  
 Duncan, John P. (English, H. Math., L. Latin).  
 Dunn, Andrew (English, H. Math., L. Latin).  
 Falconer, John (H. Latin).  
 Ferguson, Mungo (English, L. Greek).  
 Finlayson, David (Dynamics).  
 Forbes, James C. (English, L. Math., L. Latin, L. Greek).  
 Frame, Robert (English, L. Math., H. Latin, Dynamics).  
 Fraser, Hannah H. (English).  
 Fulton, John W. (H. Greek).  
 Fulton, Samuel L. (English, L. Math., H. Latin, H. Greek).  
 Gaul, Harry (L. Latin).  
 Gibson, Allan (H. Greek).  
 Gourlay, Charles A. (H. Latin, H. Greek).  
 Granger, Jessie D. (English, L. Math., L. Latin, French).  
 Gray, John (H. Latin, L. Greek).  
 Hanson, John (L. Latin, L. Greek).  
 Haran, Thomas S. (English, H. Latin, L. Greek).  
 Harkness, John (H. Math., H. Greek).  
 Harrison, Dorothy (English, L. Math., French).  
 Hotchkis, Denholm (H. Latin, H. Greek).  
 Jack, Robert M. (L. Latin, L. Greek, Dynamics).  
 Johnston, John B. (English, H. Math.).  
 Johnston, John R. (H. Latin).  
 Johnston, Lucy P. (English, L. Math., L. Latin).  
 Jones, Thomas E. (H. Math.).  
 Kelly, Andrew M'C. (H. Latin).  
 King, Alexander C. (L. Math.).  
 Kyle, David (English, L. Math., H. Latin).  
 Liddell, James G. (H. Greek).

- Lindsay, Margaret E. (English, French).  
 Lindsay, Walter P. (English).  
 M'Donald, James G. (L. Latin, L. Greek).  
 M'Donald, William E. (L. Latin, L. Greek).  
 M'Farlan, Donald (H. Latin, H. Greek).  
 M'Farlane, Andrew (L. Math., H. Latin, H. Greek).  
 M'Farlane, Selby (Dynamics).  
 M'Gill, Robert W. (H. Latin, L. Greek).  
 M'Iroy, Jane H. (L. Math., H. Latin, French).  
 Macindoe, Margaret B. (L. Math., L. Latin).  
 M'Intyre, John E. (H. Greek).  
 Mackay, Francis (H. Math., H. Latin, Dynamics).  
 M'Kenzie, Charles S. (H. Math., H. Latin).  
 M'Kenzie, Ivy (L. Latin, H. Greek).  
 Mackinnon, Neil D. (L. Greek).  
 Mackintosh, James S. (L. Math., L. Greek).  
 M'Laren, Robert (English, L. Math., L. Latin, L. Greek).  
 M'Laren, Thomas (H. Greek).  
 M'Lean, Donald (L. Greek).  
 M'Lellan, John (L. Greek).  
 M'Master, Aeneas (English, L. Math., L. Latin).  
 M'Michael, Thomas (H. Math., H. Latin).  
 M'Millan, Alexander M. (L. Latin).  
 M'Millan, Katharine T. (French).  
 M'Neill, John C. W. (H. Latin, H. Greek).  
 M'Ouat, Murdoch (H. Latin).  
 M'Pherson, Charles (H. Greek).  
 M'Phun, Margret P. (English, L. Math., L. Latin, German).  
 Mair, James (H. Math., H. Latin, Dynamics).  
 Malloch, Jane E. (L. Latin, H. Greek).  
 May, Maude G. (English, H. Math., Dynamics).  
 Millar, James (H. Greek).  
 Miller, Robert B. (English, H. Math., H. Latin).  
 Milne, John N. (English, L. Math., H. Latin).  
 Monteith, John C. (L. Math.).  
 Montgomerie, David (H. Math.).  
 Montgomerie, William (H. Math., H. Latin, L. Greek).  
 Moore, Vere E. (L. Latin).  
 Morton, David (H. Math., Dynamics).  
 Muir, John (H. Math., L. Latin, Dynamics).  
 Murdoch, William H. F. (H. Math., French).  
 Murray, Arthur E. (L. Greek).  
 Murray, Dorothy N. T. (English, H. Latin).  
 Napier, Hannah L. (English, L. Math.).  
 Newall, John (English, H. Math., H. Latin, Dynamics).  
 Paton, James B. (H. Latin).  
 Rafferty, John (L. Math., H. Latin).  
 Riddell, Andrew L. (H. Latin).  
 Robertson, Philip (German).  
 Ross, Neil (H. Greek).  
 Rule, Helen M. (L. Math., French, German).  
 Scott, William (English).  
 Scouller, Andrew (H. Latin, H. Greek).  
 Shaughnessy, Alexander (L. Math., H. Latin).  
 Sinton, Alexander (H. Math., L. Latin, Dynamics).  
 Skilling, James L. (H. Greek).

Smith, Alexander M. (English, L. Math.).  
 Smith, Archibald M. (H. Math., Dynamics).  
 Smith, David (H. Greek).  
 Smith, David B. (English, L. Latin).  
 Snodgrass, Neil S. (H. Greek).  
 Stephen, Alexander (L. Math.).  
 Storer, Alexander C. (Dynamics).  
 Stuart, Leonard (English, L. Math., H. Latin, H. Greek).  
 Styles, Oliver (English, H. Math., French, Dynamics).  
 Tannahill, Constance (H. Latin, H. Greek).  
 Tannahill, Margaret G. (L. Latin).  
 Tenneut, Robert (H. Latin, H. Greek).  
 Thumm, William F. (German, Dynamics).  
 Towers, Joseph W. (H. Greek).  
 Trestrail, Algernon G. (English, L. Latin).  
 Turnbull, Matthew (L. Latin, H. Greek).  
 Walker Alice R. (Dynamics).  
 Walker, Archibald C. (English, H. Math.).  
 Walker, James (H. Greek).  
 Walters, Joseph (L. Math.).  
 Watson, Allan M. (H. Greek).  
 Watson, Frederick A. (H. Latin, H. Greek).  
 Watt, Robert (H. Latin, L. Greek, Dynamics).  
 Whiteford, Robert (L. Latin).  
 Whyte, John W. (H. Math., H. Latin, H. Greek).  
 Wightman, William M. (English, H. Math., H. Latin).  
 Wilson, Alexander (English, H. Latin).  
 Wilson, James (H. Latin).  
 Wilson, Jane P. (L. Math.).

### PRELIMINARY EXAMINATION FOR DEGREES IN MEDICINE.

The following Candidates passed :—

*October, 1893.*

Brunton, John.	Maclure, William Johnston.
Douglas, David Curr.	M'Neil, Margaret Wallace Howie.
Grant, Jane.	Niccol, Duncan Macdougall.
Henderson, John.	Reid, John.
Keir, William Wallace.	Sproul, Robert.
Matheson, Alexander.	Stalker, William Stewart.
Minto, Harvey Stephen.	Stevenson, Francis.
Mitchell, Percival Ambler.	Stiell, Agnes Lillias.
Morgan, Catherine Frances.	Stokes, Frederick Ernest.
M'Kendrick, Robert Andrew.	Strang, Thomas Morton.
Watson, Robert Andrew Hannan.	

*April, 1894.*

Anderson, John.	Craig, John.
Beesley, William.	Crawford, George Morris.
Bennett, James Freeborn.	Crichton, Charles Peter Garvie.
Brownlie, Andrew.	Davidson, Sarah.
Cairns, Patrick T.	Downie, George Horn.
Cathcart, Edward Provan.	Duncan, Elizabeth B.
Chalmers, James Robert.	Ferguson, Hugh Campbell.
Cook, Wallace Angus.	Galbraith, Walter Sloan.
Cowan, David Maclure.	Gracie, John.
Cowan, Samuel Campbell.	Granger, Jessie Downie.



Gray, James Bryce.  
 Hunter, Jessie S. B.  
 Kennedy, Robert Dallas.  
 Kerr, Andrew.  
 Kirk, William Henry.  
 Lambie, John Francis.  
 Leys, Norman M'Lean.  
 M'Fadyen, Peter.  
 Macintyre, David Duncan Fraser.  
 Maclurkin, Alfred Robert.  
 M'Millan, John.  
 M'Phee, Burgess.  
 Mills, William Archibald.  
 Neill, Thomas.  
 Nicol, Thomas Drysdale.  
 O'Hanlon, Patrick.

Picken, Thomas Stephens.  
 Rae, William Murdoch.  
 Robertson, Sara Maude.  
 Robertson, Wm. Cunynghame.  
 Samson, John.  
 Scott, Malcolm.  
 Shaughnessy, Joseph.  
 Shearer, James.  
 Smith, Andrew Doak.  
 Stanford, Chas. Edward Cortis.  
 Taylor, Robert.  
 Thomson, Charles Pinkerton.  
 Thomson, William Brown.  
 Wallace, Robert.  
 Watson, Thomas Blandford.  
 Wilson, Victor Albert.

Young, Grace Lorrain.

### BURSARY EXAMINATION.

*October, 1893.*

The figure (2) denotes Students of the second year.

The following Candidates distinguished themselves in the Competition, viz.:-

1. Horace F. Wallace, High School, Glasgow.
2. George D. Valentine, Dumbarton Burgh Academy.
3. William Fulton (Uddingston), High School, Glasgow.
4. Alexander Fraser, Hutchesons' Grammar School, Glasgow.
5. David H. Tweeddale, High School, Glasgow.
6. Joseph White, High School, Glasgow.
7. James P. Brander, Kelvinside Academy, Glasgow.
8. Robert J. T. Bell, Hamilton Academy.
9. James Adam, Neilson Institution, Paisley, and High School, Glasgow.
10. Alexander Dey Thompson, Garnethill Public School, Glasgow.
11. John Brash, Hutchesons' Grammar School, Glasgow.
12. Andrew Stewart (2), Campbeltown Grammar School.
13. Robert D. Bell, Kilblain Academy, Greenock.
14. John J. Ross, Church of Scotland Normal School, Glasgow.
15. Allan Gibson (2), Neilson Institution, Paisley.
16. Peter W. Monie, Irvine Royal Academy.
17. David L. Blair, Garnethill Public School, Glasgow.
18. James E. Henderson (2), Garnethill Public School, Glasgow.
19. Robert F. Ballantyne, Hutchesons' Grammar School, Glasgow.
20. George Dock, Paisley Grammar School.
21. John Edgar, Hutchesons' Grammar School, Glasgow.
22. Ebenezer H. Fraser, High School, Glasgow.
23. James Marr, Kilmarnock Academy.
24. Robert M'Ewan, Paisley Grammar School.
25. John Murphy, Lanark Grammar School.
26. John Jeffrey (2), Irvine Royal Academy.
27. Francis M. Cockburn (2), Merchiston Castle, Edinburgh.
28. William J. C. Helme (2), Dalbeattie Public School.
29. John M'Kellar, Hutchesons' Grammar School, Glasgow.
30. James Walker (2), Hutchesons' Grammar School, and Glasgow P.T.  
 Central Classes.
31. Thomas Craig, Speir's School, Beith.
32. James C. Ker, Irvine Royal Academy.

33. William Scott, Lanark Grammar School.
34. James W. Baird, High School, Glasgow.
35. Murdoch M'Ouat (2), Ladyburn Public School, Greenock.
36. John Stewart (2), Kilmarnock Academy.
37. John M'Donald (2), Free Church Training College, Glasgow.
38. John Clark, Ayr Academy.
39. Robert L. Turner (2), High School, Glasgow.
40. Roderick M'Leod (2), Grammar School, Old Aberdeen.
41. Charles C. Cuthbert, High School, Glasgow.
42. Henry G. Webber, Garnethill Public School, Glasgow.
43. William C. Dick, Hutchesons' Grammar School, Glasgow.
44. Harry S. Martyn (2), Garnethill Public School, Glasgow.
45. Allan M. Watson, Loretto, Musselburgh.
46. William Stevenson (2), Irvine Royal Academy.
47. John Glen, Dumbarton Burgh Academy.
48. Robert H. Martin (2), Garnethill Public School, Glasgow.

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### UNIVERSITY PRIZES.

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#### I. FOR ESSAYS.

1. In Natural Philosophy, the **CLELAND GOLD MEDAL**, for the best Essay on "The Relation between Measurements of Electrostatic and Electromagnetic Units."

Adam B. Stewart, Glasgow.

2. In Mental Philosophy, the **UNIVERSITY SILVER MEDAL**, for the best Essay on "The Relations between Poetry and Philosophy."

Kathleen V. Bannatyne, Glasgow.

3. The **GARTMORE GOLD MEDAL**, for the best Essay on "Payment of Members of Parliament."

John Charles Scott, Carlisle.

4. A **COULTER PRIZE OF FIVE POUNDS**, for the best Essay on "The Ethics of Shakespeare."

William G. Skinner, M.A., Glasgow.

5. A **COULTER PRIZE OF FIVE POUNDS**, for the best Latin Essay on "The Influence of Geographical Conditions upon the Development of Ancient Italian History."

Joseph F. M'Fadyen, Glasgow.

6. The **RAE-WILSON GOLD MEDAL**, for the best Essay on "The Essences."

George G. Duncan, M.A., Bridge of Weir.

7. The **HENDERSON PRIZE OF TWENTY GUINEAS**, for the best Essay on "The Influence of the Sabbath on the Political and Social Life of the Jews in pre-Christian Times."

James A. S. Little, M.A., Glasgow.

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#### II. FOR EXAMINATION.

1. An **ARNOTT PRIZE** of £15, for Examination in General Physics, open to Students of the First and Second Years of their Medical Studies.

Kenneth M'Kenzie Duncan, Cambuslang.

2. An **ARNOTT PRIZE** of £25, for Examination in Physiological Physics, open to Students of the Third and Fourth Years of their Medical Studies.

James Currie Robertson, M.A., Kilmarnock.

3. The FINDLATER (DIVINITY) SCHOLARSHIP, value £38, for an Examination in Hebrew, New Testament Exegesis, and Apologetics.

John Hamilton Pagan, M.A., Bothwell.

4. The JAMIESON PRIZE, value £10, for an Examination in Hebrew, New Testament Exegesis, and Apologetics.

John M'Gilchrist, M.A., Bowmore, Islay.

5. The MACFARLANE AND COOK TESTIMONIAL PRIZE of £21, open to Theological Students of Three Years' standing; Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

John M'Gilchrist, M.A., Bowmore, Islay.

6. The GLADSTONE HISTORICAL PRIZE of £21, for the best Examination in English History.

Edward Hamilton Wallace, M.A., Hamilton.

7. The THOMAS LOGAN MEDAL AND PRIZE of £12, to the most distinguished Graduate in Arts of the year (1893).

Gilchrist Gibb Alexander, M.A., with First-Class Honours in Mental Philosophy.

8. The BRUNTON MEMORIAL PRIZE of £10, to the most distinguished Graduate in Medicine of the Year (1893).

John Johnson Urwin, M.B., C.M.

### CLASS PRIZES.

## Faculty of Theology.

### DIVINITY.

PROFESSOR WILLIAM P. DICKSON, D.D., LL.D.

#### SENIOR CLASS.

#### I. Students of the Third Year:—

For Excellence in Written Examinations.

- |  |          |
|--|----------|
| 1. John M'Gilchrist, M.A., Bowmore, Islay. | } Equal. |
| 2. John H. Pagan, M.A., Bothwell.          |          |
| 3. David S. Merrow, M.A., Govan.           |          |
| 4. David Young, M.A., Avondale.            |          |

#### II. Students of the Second Year:—

For Excellence in Written Examinations.

- |  |          |
|--|----------|
| 1. George G. Duncan, M.A., Bridge of Weir. | } Equal. |
| 2. Donald Macgillivray, M.A., Mull.        |          |
| 3. John Mack, M.A., Baillieston.           |          |
| 4. Charles W. Hutcheson, M.A., Glasgow.    |          |
| 5. John Mackenzie, Oban.                   |          |

Dowanhill Prizes of £21 and £10 10s. for Elocution.

- |                                      |
|--------------------------------------|
| 1. Ernest S. Gunnson, M.A., Glasgow. |
| 2. Matthew Mair, Paisley.            |

#### JUNIOR CLASS.

#### III. Students of First Year:—

For Excellence in Written Examinations.

- |  |
|--|
| 1. Gavin L. Pagan, Bothwell.           |
| 2. John M'A. Dickie, M.A., Kilmarnock. |
| 3. Andrew M. Barr, Glasgow.            |
| 4. John S. Morrison, Kirkintilloch.    |

## DIVINITY AND BIBLICAL CRITICISM.

PROFESSOR WILLIAM STEWART, D.D.

## I. Written Examinations:—

## SENIOR DIVISION.

1. Adam Nelson, M.A., Glasgow.
2. John M'Gilchrist, M.A., Bowmore, Islay.
3. John H. Pagan, M.A., Bothwell.

*Proxime accesserunt*—David S. Merrow, M.A., Govan; John Morrison, M.A., Govan; William H. Shannon, Greenock; Donald D. Macdonald, M.A., Kilmalcolm; David Young, M.A., Strathaven.

## JUNIOR DIVISION.

1. George G. Duncan, M.A., Bridge of Weir.
2. { John Mack, M.A., Baillieston.  
William M. Steven, M.A., Whiteinch. } Equal.
3. { Francis G. Geddes, M.A., Dumfries.  
Charles W. Hutcheson, M.A., Glasgow. } Equal.

*Proxime accesserunt*—James A. S. Little, M.A., Glasgow; Donald Macgillivray, M.A., Mull.

## II. Essays:—

1. Adam Nelson, M.A., Glasgow.
2. John H. Pagan, M.A., Bothwell.
3. John Mack, M.A., Baillieston.

*Proxime accesserunt*—David Young, M.A., Avondale; John Morrison, M.A., Govan; George G. Duncan, M.A., Bridge of Weir; William M. Steven, M.A., Whiteinch.

## HEBREW AND ORIENTAL LANGUAGES.

PROFESSOR JAMES ROBERTSON, D.D.

## I. JUNIOR HEBREW CLASS.

1. John M'A. Dickie, M.A., Kilmarnock.
2. John G. Cranmer, Milngavie.
3. Robert C. Richardson, Wishaw.
4. John S. Morrison, Kirkintilloch.
5. John G. M'Garva, Glasgow.
6. Robert Hobart, Carluke.

*Next in Order of Merit*—James Eadie, Glasgow; Gavin L. Pagan, Bothwell; Maxwell R. Kirkpatrick, Dalbeattie.

## II. SENIOR HEBREW CLASS.

1. Francis G. Geddes, M.A., Dumfries.
2. John C. M'Naught, M.A., Glasgow.
3. Charles W. Hutcheson, M.A., Glasgow.
4. John Mack, M.A., Baillieston.
5. James Higgins, Milngavie.

*Next in Order of Merit*—Guy S. Peebles, Airdrie; Donald Macgillivray, M.A., Mull.

## III. SPECIAL PRIZES.

1. For an Original Composition in Hebrew—Donald Dewar Macdonald, M.A., Kilmalcolm.
2. For Summer Reading, Senior Division—Donald Dewar Macdonald, M.A.
3. For Summer Reading, Junior Division—Francis G. Geddes, M.A.
4. For an Examination on unpointed Hebrew—Francis G. Geddes, M.A.
5. For an Examination on Lectures for Divinity Students—George G. Duncan, M.A., Bridge of Weir.

## CHURCH HISTORY.

PROFESSOR ROBERT HERBERT STORY, D.D.

## JUNIOR CLASS.

1. John M'A. Dickie, M.A., Kilmarnock.
  2. Gavin L. Pagan, Bothwell.
  3. Hugh T. S. Morrison, M.A., Dalry, Ayrshire.
  4. { Andrew M. Barr, Glasgow, } Equal.  
     { John N. Macdonald, Motherwell, }
- Proxime accesserunt*—Andrew S. Gilchrist, Lanark.

## SENIOR CLASS.

1. David Young, M.A., Avondale.
  2. John H. Pagan, M.A., Bothwell.
  3. { Donald D. Macdonald, M.A., Kilmalcolm, } Equal.  
     { John M'Gilchrist, M.A., Bowmore, Islay, }
  4. David S. Merrow, M.A., Govan.
- Proxime accesserunt*—William H. Shannon, Greenock; Robert Smith, Paisley; Adam Nelson, M.A., Glasgow.

Faculty of Law.

## CIVIL LAW.

PROFESSOR ALEXANDER MOODY STUART, LL.D.

For Eminence in the Class Examinations :—

1. \*Jerome Dennison.
2. \*Walter King, M.A.
3. \*Hugh Pattison Macmillan, M.A.
4. \*Alexander Taylor, M.A.
5. Robert Bryce Walker, M.A.
6. { Joseph Macnaughtan, M.A., } Equal.  
     { James D. Robertson, M.A., }
8. John G. Spens, M.A.
9. Francis W. Harvey.
10. Archibald C. Morrison, M.A.
11. James Morton, B.L.

The \* denotes the Prizemen.

## SCOTS LAW.

PROFESSOR ALEXANDER MOODY STUART, LL.D.

I. For Eminence in the Class Examinations :—

1. \*John Findlay Robertson (Robert Ross Prize).
2. \*Andrew S. Macharg (Dean of Faculty's Prize).
3. \*John Dundas.
4. \*Robert Bryce Walker, M.A.
5. \*Louis Blair.
6. \*Alexander C. Turner.
7. Leonard C. Boyd.
8. Charles W. Brown.
9. William Guy.
10. James Knox.
11. James Dunn Russell.
12. Alexander M'Cutcheon.
13. John G. Spens, M.A.
14. Duncan Macallum.

The \* denotes the Prizemen.

II. The Prizes given by the Faculty of Procurators in Glasgow for Eminence in a Special Examination on the Subjects of the Course were awarded to:—

1. John Findlay Robertson.
2. Louis Blair.
3. Alexander C. Turner.
4. { Andrew S. Macharg,  
Robert Bryce Walker, M.A., } Equal.

The following Students distinguished themselves in this Examination, viz.:—

6. { Leonard C. Boyd, } Equal.  
John Dundas,
8. { William Guy, } Equal.  
James Knox,
10. John Russell Aitken, M.A.

### CONVEYANCING.

PROFESSOR JAMES MOIR.

Ordinary Class Examination.

Prizemen:—

1. Hugh Cowan, M.A., Glasgow (Robert Ross Prize).
2. William Craig Graham Douglas, Johnstone (Dean of Faculty's Prize).
3. William James, Greenock.
4. Andrew M'Nair, Glasgow.

Eminently Distinguished:—

5. George Morton M'Naught, Kilmaurs.
6. William M'Cosh, Tarbolton.
7. John M'Callum, Glasgow.
8. John Bartholomew, M.A., Glasgow.
9. James A. Simpson, Dumfries.
10. John Drinnan Jamieson, Tarbolton.
11. James Stevenson Mearns, Greenock.
12. William Stevenson Cochran, Glasgow.
13. Daniel Wright, Paisley.
14. Alexander Mitchell Hamilton, M.A., Glasgow.

Examination for Prizes given by the Faculty of Procurators in Glasgow.

Prizemen:—

1. William Craig Graham Douglas.
2. Hugh Cowan, M.A.
3. Daniel Wright.
4. John Bartholomew, M.A.

Eminently Distinguished:—

5. William M'Cosh.
6. Alexander Mitchell Hamilton, M.A.
7. Andrew M'Nair.
8. Matthew Riddell, Glasgow.
9. John Drinnan Jamieson.
10. William James.
11. Samuel Macfie, M.A., Rothesay.
12. William Stevenson Cochran.



## FORENSIC MEDICINE.

*Summer Session, 1893.*

PROFESSOR PIERCE ADOLPHUS SIMPSON, M.A. (Cantab.), M.D.

WILLIAM HUNTER MEDAL—John Bartholomew, M.A.

FIRST-CLASS CERTIFICATES OF MERIT (alphabetically arranged).

Jerome Dennison.

Alexander M. Hamilton, M.A.

George Dunlop.

Joseph Macnaughtan, M.A.

---

Faculty of Medicine.

## FORENSIC MEDICINE.

*Summer Session, 1893.*

PROFESSOR PIERCE ADOLPHUS SIMPSON, M.A. (Cantab.), M.D.

WILLIAM HUNTER MEDAL—Donald M'Lean.

FIRST-CLASS CERTIFICATES OF MERIT (alphabetically arranged).

William L. Jones.

Henry A. Pattullo.

David Ligat.

Hugh Riddell.

James D. O. Wilson.

SECOND-CLASS CERTIFICATES OF MERIT (alphabetically arranged).

Peter S. Buchanan.

Alexander MacLennan.

William S. Cook, B.Sc.

James Mair.

Peter F. Dewar.

Robert Morton.

Alexander Dodds.

Cuthbert Nairn.

---

DISEASES OF WOMEN.

PROFESSOR WILLIAM LEISHMAN, M.D.

*Summer Session, 1893.*

MEDALLIST—Robert Y. Aitken.

FIRST-CLASS CERTIFICATES.

Alexander J. Brownlee.

Campbell S. Marshall.

James Fullarton, M.A.

Edward P. Sinclair.

Duncan MacDonald.

John H. Teacher, M.A.

John J. Urwin.

SECOND-CLASS CERTIFICATES.

John E. Adam.

Thomas M'Nay.

Robert Boyd.

Malcolm Macnicol, M.A.

David A. Dewar.

Donald M. MacRae.

Frederick Dittmar, M.A.

John A. Naismith.

Andrew Donald.

Andrew C. Park.

James D. Finlay.

John Pearson.

William W. Fyfe.

William P. Porter.

Andrew J. Laird.

Allan M. Robertson.

Gavin M'Callum.

Malcolm A. M. Sinclair.

Donald D. Macdonald.

John D. Smith.

James L. Watson.

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MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR MATTHEW CHARTERIS, M.D.

FIRST-CLASS CERTIFICATES (in order of merit).

MEDALLISTS—

{	Joshua Ferguson, M.A.,	}	Equal.
	William Scobie, B.D.,		
	Alexander H. Stewart,		

Robert Nelson.

James D. Graham.

Alexander Stevenson.

Matthew Dunning.

John Gordon.

Henry A. Watson, M.A.

John H. Douglas.

Samuel Prior.

## SECOND-CLASS CERTIFICATES (in order of merit).

John Anderson, M.A.  
 George Jubb.  
 Alexander Scott.  
 William Lawson.  
 William Alexander.  
 William H. de Wytt.  
 William Allan.

Adam C. Muir.  
 Herbert K. Wallace, B.Sc.  
 Robert K. Miller.  
 Ernest A. Walker, M.A.  
 Robert B. Barr.  
 William Hay, B.D.  
 Samuel D. Cowan, M.A.

James Sproull.

## PRACTICAL PHARMACY.

*Summer Session, 1893.*

PROFESSOR MATTHEW CHARTERIS, M.D.

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

1. Hugh B. Currie.

## FIRST-CLASS CERTIFICATES (in order of merit).

- |                         |                            |
|-------------------------|----------------------------|
| 2. William Scobie, B.D. | 4. { John M. Manford, M.A. |
| 3. { James Findlay.     | { Farquhar Macrae.         |
| { James Foulds.         | { Alexander Stevenson.     |
| { John S. M'Kendrick.   | { Anthony Vost.            |
| 5. { William Lawson.    |                            |
| { William H. de Wytt.   |                            |
| { James Rankin, B.Sc.   |                            |

## SECOND-CLASS CERTIFICATES (in order of merit).

- |                            |                          |
|----------------------------|--------------------------|
| 1. Thomas Bell.            | 4. John H. Douglas.      |
| 2. { Hugh Calderwood.      | 5. John A. Hope.         |
| { Peter S. Clark.          | 6. James D. Graham.      |
| { John Gordon.             | 7. { Adam C. Muir.       |
| { Robert M'Naught.         | { Alexander Scott.       |
| 3. { Alexander H. Stewart. | 8. Robert B. Barr.       |
| { Hugh Wright Thomson.     | 9. Henry A. Watson, M.A. |

## PRACTICE OF MEDICINE.

PROFESSOR WILLIAM T. GAIRDNER, M.D., LL.D., F.R.S.

THE GAIRDNER MEDAL—William Scobie, B.D., Glasgow.

## FIRST-CLASS CERTIFICATES (in order of merit).

William S. Cook, B.Sc., Greenock.  
 Alexander Cameron, Glasgow, } Equal.  
 Alexander MacLennan, Glasgow, }

## SECOND-CLASS CERTIFICATES (in alphabetical order).

John Anderson, Glasgow.	James C. McNeillie, Glasgow.
John Brownlee, M.A., Rutherglen.	Alexander Macphail, Glasgow.
Robert Buchanan, M.A., B.Sc., Ayr.	John H. Martin, M.A., Glasgow.
Henry Carmichael, Peebles.	Robert K. Miller, Glasgow.
Hugh B. Currie, Stewarton, Ayrshire.	Adam C. Muir, Glasgow.
Robert K. Currie, Glasgow.	Edw. J. Primrose, M.A., Glasgow.
John W. Findlay, Glasgow.	Samuel Prior, Cockermouth.
David Glen, Dumbarton.	Daniel Richmond, Co. Antrim.
John A. Hope, Glasgow.	Alex. H. Stewart, Glasgow.
David C. Kirkhope, Glasgow.	E. A. Walker, M.A., Uddingston.
John Knight, Glasgow.	Henry A. Watson, M.A., Glasgow.
William Lawson, Rothesay.	Malcolm Watson, Glasgow.

## CLINICAL MEDICINE.

PROFESSOR WILLIAM T. GAIRDNER, M.D., LL.D., F.R.S.

THE WILLIAM CULLEN MEDAL—Malcolm Watson, Glasgow.

*Proxime accessit*—William S. Cook, B.Sc., Greenock.

FIRST-CLASS CERTIFICATES (in order of merit).

William Scobie, B.D., Glasgow.

Henry A. Pattullo, Kirkcudbright.

William Lawson, Rothesay.

Hugh Riddell, Glasgow.

SPECIAL PRIZES.

For Notes of Lectures and Clinical Demonstrations—

John Reid, Glasgow (*Summer*, 1893).Hugh Riddell, Glasgow (*Winter*, 1893-94).

SECOND-CLASS CERTIFICATES (in alphabetical order).

Robert Brownlee Barr, Carlisle.

John Murray, Glasgow.

Alexander Cameron, Glasgow.

James C. McNeillie, Glasgow.

David Glen, Dumbarton.

William Salmond, Glasgow.

John A. Hope, Glasgow.

Joseph Scott, Campbeltown.

## CLINICAL MEDICINE.

PROFESSOR THOMAS M'CALL ANDERSON, M.D.

*Summer Session*, 1893.

FIRST-CLASS CERTIFICATES (in order of merit).

SENIOR DIVISION.

1. Malcolm A. M. Sinclair.

2. John Francis Robert Gairdner.

3. Alexander Dodds.

4. { Peter Marshall.

{ John Wainman Findlay.

JUNIOR DIVISION.

1. { John M. Cowan, B.A.

{ Joshua Ferguson, M.A.

2. { William Scobie, B.D.

{ William Lawson.

3. William Burns.

*Winter Session*, 1893-94.

SENIOR DIVISION.

MEDALLIST—Alexander MacLennan.

FIRST-CLASS CERTIFICATES (in order of merit).

1. Robert Morton.

4. John C. Matheson.

2. Peter S. Buchanan.

5. William C. Faulds.

3. { Robert K. Currie.

6. John Morrison.

{ John Bain.

JUNIOR DIVISION.

MEDALLIST—Alexander H. Stewart.

FIRST-CLASS CERTIFICATES (in order of merit).

1. Ernest A. Walker, M.A.

4. { Robert K. Miller.

{ Adam C. Muir.

2. { John Munro.

{ John M. W. Morison.

5. { Anthony Vost.

{ Samuel D. Cowan, M.A.

{ Samuel Anderson.

3. { Thomas Bell.

6. William Macleod.

{ Archibald Young, B.Sc.

## SURGERY.

PROFESSOR WILLIAM MACEWEN, M.D., LL.D.

SENIOR DIVISION.

MEDALLIST—John W. Findlay.

## FIRST-CLASS CERTIFICATES (in order of merit).

Hugh B. Currie.		William S. Cook, B.Sc.
Alexander Cameron,	} Equal.	Cuthbert Nairn.
Alexander MacLennan,		Donald MacRae.
Henry A. Pattullo,	} Equal.	
Alexander Macphail,		

## COMMENDED (in order of merit).

Robert Howie.		Alexander Blair.
James F. Gemmill, M.A.,	} Equal.	Thompson Campbell,
Archibald Campbell,		John Drummond,
Henry Carmichael.		Henry B. Smith,
Robert W. Forrest,	} Equal.	James C. McNeillie.
David Glen,		Peter S. Buchanan,
Hugh W. Thomson.		George A. Eadie,

## JUNIOR DIVISION.

MEDALLISTS,	{ Samuel Prior,	} Equal.
	{ Joshua Ferguson, M.A.,	

## FIRST-CLASS CERTIFICATES (in order of merit).

Alexander Stevenson.	Herbert K. Wallace, B.Sc.
----------------------	---------------------------

## COMMENDED (in order of merit).

Farquhar Macrae.		Daniel Richmond,	} Equal.
Robert Buchanan, M.A., B.Sc.		Francis J. Barker, M.A.,	
John M. W. Morison.		Archibald R. Oliver,	} Equal.
Archibald Young, B.Sc.		Moses N. MacLay,	
John T. Bowie.		James Findlay.	

## CLINICAL SURGERY.

PROFESSOR WILLIAM MACEWEN, M.D., LL.D.

## SENIOR DIVISION.

MEDALLIST—James D. O. Wilson.

## FIRST-CLASS CERTIFICATE.

Archibald S. Dick.

## JUNIOR DIVISION.

MEDALLIST—Alexander Macphail.

## FIRST-CLASS CERTIFICATES (in order of merit).

John Reid.		Hugh B. Currie.
James F. Gemmill, M.A.		Hugh S. B. Nisbet.
	John H. Martin, M.A.	

## COMMENDED (in order of merit).

Cuthbert Nairn.	Thompson Campbell,	} Equal.
Robert Howie.	James Findlay,	
	Samuel English.	

## CLINICAL SURGERY.

PROFESSOR GEORGE BUCHANAN, M.A., M.D., LL.D.

## UNIVERSITY MEDALS.

*Senior*—Donald M. MacRae.

*Junior*—John L. Carstairs, M.A.

## FIRST-CLASS CERTIFICATES OF MERIT.

William Allan.		Joseph McQueen.
Walter S. Findlay, M.A.		James McQueen, M.A.
	Archibald Mason.	

## PHYSIOLOGY.

PROFESSOR JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.

JOHN HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Thomas Hunter, M.A.

FIRST-CLASS CERTIFICATES (in order of merit).

James M'Queen, M.A.

James D. Cochran.

William G. Liston.

William Martin, M.A.

Donald S. Sutherland.

James Alston.

SPECIAL FIRST-CLASS CERTIFICATE.

Herbert M. Gay, M.B.

SECOND-CLASS CERTIFICATES (in order of merit).

Hugh Calderwood.

George Coats.

Joseph A. Clarke.

Laurence A. MacKenzie.

Walter S. Findlay, M.A.

John Witherspoon.

Francis J. Charteris.

## ADVANCED PRACTICAL PHYSIOLOGY (FOR B.Sc.).

JOHN HUNTER MEDAL.

William Martin, M.A.

FIRST-CLASS CERTIFICATE.

Hugh Calderwood.

## PRACTICAL PHYSIOLOGY.

*Summer, 1893.*

JOHN HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Joshua Ferguson, M.A.

FIRST-CLASS CERTIFICATES (in order of merit).

Henry A. Watson, M.A.

Alexander Stevenson.

John S. M'Kendrick.

Samuel Prior.

William Macleod.

Ernest A. Walker, M.A.

Thomas C. Garrett.

William H. de Wytt.

SECOND-CLASS CERTIFICATES (in order of merit).

George A. Brown,

William Scobie, B.D.

R. Buchanan, M.A., B.Sc., } Equal.

J. M. Manford, M.A., } Equal.

Hugh Calderwood,

Robert Nelson,

Thomas Bell, } Equal.

William Lawson, } Equal.

Anthony Vost,

Alexander H. Stewart,

Norman Macnair.

## ANATOMY.

PROFESSOR JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S.

SENIOR CLASS.

MEDALS, { Hugh Calderwood, } Equal.  
                  { Thomas Hunter, M.A., }

FIRST-CLASS CERTIFICATES (in order of merit).

James Alston.

William G. Liston.

SECOND-CLASS CERTIFICATES (in order of merit).

James M'Queen, M.A.

William M. Lindsay.

William Martin, M.A.

Andrew C. Wilson.

John G. W. Boleyn.

George Coats.

Walter S. Findlay, M.A.

Walter L. Thomson.

David M'Kail.

James D. Cochran.

## JUNIOR CLASS.

MEDAL—John J. Edgar.

FIRST-CLASS CERTIFICATE.

Robert Fullarton, M.A.

## SECOND-CLASS CERTIFICATES (in order of merit).

John Wilson Leitch, M.A.	William Webster.
David S. Harvey.	Kenneth M. Duncan.
Arthur J. Ballantyne,	John James Buchan.
R. R. Macnicol, M.A., } Equal.	John Macdonald.
John Reid.	

## EMBRYOLOGICAL AND TERATOLOGICAL ANATOMY.

*Summer, 1893.*

## PRIZES.

- |                          |                          |
|--------------------------|--------------------------|
| 1. Joshua Ferguson, M.A. | 2. Henry A. Watson, M.A. |
|--------------------------|--------------------------|

## CERTIFICATES OF MERIT (in order of merit).

John M. Manford, M.A.,	} Equal.	James Foulds,	} Equal.
John Morison,		Adam C. Muir,	
Archibald Young,	} Equal.	Anthony Vost.	} Equal.
William Scobie, B.D.,		Samuel Anderson.	
Alexander H. Stewart,	} Equal.	Robert Buchanan, M.A., B.Sc.	
R. M. Fraser, M.A.,		Robert B. Barr,	
William Lawson,	} Equal.	Samuel Prior,	
		John L. Anderson,	

## NATURAL HISTORY.

PROFESSOR JOHN YOUNG, M.D.

## ZOOLOGY.

*Summer, 1893.*

## WILLIAM HUNTER MEDALS AND FIRST-CLASS CERTIFICATES.

Walter Colquhoun, M.A.,	} Equal.
Ranald D. Campbell,	

## SECOND-CLASS CERTIFICATES.

Alexander S. Allan.	David J. Young.
---------------------	-----------------

*Winter Session, 1893-94.*

## WILLIAM HUNTER MEDAL.

John R. Currie, M.A.

## SECOND-CLASS CERTIFICATES.

William Duncan.	George W. Ord.
Archibald Jubb.	Ramsay Hunter.
Arthur J. Ballantyne.	David S. Harvey.

## PRACTICAL ZOOLOGY.

*Summer, 1893.*

## WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Thomas Hunter, M.A.

## SECOND-CLASS CERTIFICATES.

William M. Lindsay.	William Brown.
---------------------	----------------



*Winter Session, 1893-94.*

WILLIAM HUNTER MEDAL.

John R. Currie, M.A.

SECOND-CLASS CERTIFICATES.

David S. Harvey. | William Duncan.

## GEOLOGY.

WILLIAM HUNTER MEDAL.

Alexander G. Craig.

SECOND-CLASS CERTIFICATES.

Adam G. Whyte. | Walter Stewart, M.A.

## BOTANY.

PROFESSOR F. O. BOWER, D.Sc., F.R.S.

MEDAL—John Crow.

FIRST-CLASS CERTIFICATE—Thomas Hunter, M.A.

SECOND-CLASS CERTIFICATES.

Donald S. Sutherland.		James M'Queen, M.A.
Norman Macnair, } Equal.		David L. Cairns, } Equal.
James Alston, }		Harry M. Kyle, }
John A. C. Macewen.		

## PRACTICAL CLASS.

MEDAL—Roderick R. Macnicol.

FIRST-CLASS CERTIFICATE—James Alston.

SECOND-CLASS CERTIFICATES.

David L. Cairns.		Andrew C. Wilson.
Adrian A. Forrester.		William Ingram, }
Thomas Hunter, M.A.		Donald S. Sutherland, } Equal.
James D. Cochran.		James M'Queen, M.A.

HERBARIUM PRIZE AND FIRST-CLASS CERTIFICATE.

Alexander L. Brown.

Mr. Brown's Herbarium contained 490 specimens, correctly named.

## CHEMISTRY—PRACTICAL CLASS.

*Summer, 1893.*

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

JOSEPH BLACK MEDAL AND FIRST-CLASS CERTIFICATE.

Donald S. Sutherland.

FIRST-CLASS CERTIFICATES.

Walter S. Findlay, M.A.		Alexander Lawrie.
		David S. Smith.

SECOND-CLASS CERTIFICATES.

Alexander S. Allan.		William F. M'Indoe.
William Brown.		James M'Queen, M.A.
William C. Burns.		James M'Whir.
George Clark.		Joseph B. Paterson.
James F. Fleming.		Robert Scott.
James Kirkland.		Archibald Smellie.
Peter Macdonald.		Henry N. Turner.

## CHEMISTRY.

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.  
JOSEPH BLACK MEDAL AND FIRST-CLASS CERTIFICATE.  
Archibald Jubb.

## FIRST-CLASS CERTIFICATES.

John J. Buchan.

Kenneth M. Duncan.

Mungo M. Fairgrieve.

## SECOND-CLASS CERTIFICATES.

John Crow.

John A. Sloan.

William Duncan.

Alexander D. Thompson.

William Webster.

## PRACTICAL PATHOLOGY.

*Summer, 1893.*

LECTURER—JOSEPH COATS, M.D.

## JOSEPH BLACK MEDAL.

John Francis Robert Gairdner.

## FIRST-CLASS CERTIFICATES.

William S. Cook, B.Sc.

John Brownlee, M.A.

William D. Miller.

Donald MacDonald.

Alexander MacLennan.

Cuthbert Nairn,

Thomas W. Bayne,

Hugh Riddell,

Alexander Macphail,

} Equal.

Henry A. Pattullo,

} Equal.

## FOR BEST SET OF DRAWINGS FROM SECTIONS IN CLASS.

First Prize (Three Guineas)—Alexander Macphail.

Second Prize (One Guinea)—William S. Cook, B.Sc.

Honourable Mention—Alexander MacLennan.

## SECOND-CLASS CERTIFICATES.

William Burns,

Hugh W. Thomson.

John Drummond,

Peter S. Buchanan,

Robert Howie,

} Equal.

John Cumming,

Hugh S. B. Nisbet,

David Glen,

John Reid,

Moses N. MacLay,

} Equal.

Hugh B. Currie.

## PATHOLOGY.

LECTURER—JOSEPH COATS, M.D.

## JOHN HUNTER MEDAL.

Joshua Ferguson, M.A.

## FIRST-CLASS CERTIFICATES (alphabetically arranged).

Samuel Anderson.

William Scobie, B.D.

Samuel D. Cowan, M.A.

Alexander Stevenson.

John Gillan, M.A.

Alexander H. Stewart.

Robert K. Miller.

Ernest A. Walker, M.A.

Adam C. Muir.

Herbert K. Wallace, B.Sc.

Edward J. Primrose, M.A.

Henry A. Watson, M.A.

Samuel Prior.

Archibald Young, B.Sc.

## PHYSICS.

PROFESSOR LORD KELVIN, LL.D., D.C.L., P.R.S.

MAGNUS MACLEAN, M.A., F.R.S.E.

JOSEPH BLACK MEDAL AND FIRST-CLASS CERTIFICATE.

David M'Kail.

## FIRST-CLASS CERTIFICATES.

James Alston, }  
 Mungo M. Fairgrieve, } Equal.  
 William C. Burns, }  
 George Clark, } Equal.

John Crow.  
 George Irving, M.A.  
 William Crerar.  
 Alexander D. Nicolson.

Donald S. Sutherland.

## SECOND-CLASS CERTIFICATES.

Laurence W. Harrison.  
 Alexander Lawrie, }  
 John Wotherspoon, } Equal.  
 Arthur J. Ballantyne, }  
 George Coats, }  
 James F. Fleming, } Equal.  
 Andrew S. Lang, }  
 Alexander M. Lindsay, }  
 James D. Cochran, }  
 Robert Scott, } Equal.  
 William Webster, }  
 Thomas B. Garvie, }  
 Adrian A. Forrester, } Equal.  
 Laurence A. Mackenzie, }

James F. Bottomley, }  
 Anderson G. M'Kendrick, } Equal.  
 Archibald Jubb, }  
 Andrew Love, } Equal.  
 James A. Mitchell, }  
 John M'Donald, } Equal.  
 William Wyper, }  
 James Scott, }  
 David L. Cairns, } Equal.  
 Joseph A. Clarke, }  
 Harold S. Heap, } Equal.  
 John M. Sloan, }  
 George M. Welsh, }

## Faculty of Arts.

## ENGINEERING.

PROFESSOR ARCHIBALD BARR, D.Sc., M.Inst.C.E.

THE GEORGE HARVEY PRIZE OF £20.

Campbell Macmillan, Glasgow.

Next in Order of Merit.

2. Robert D. Cassells, Glasgow. | 3. George W. Shearer, Glasgow.

WALKER PRIZES.

1. George W. Shearer, Glasgow. | 2. Campbell Macmillan, Glasgow.

3. { Robert D. Cassells, Glasgow, }  
 { Alexander G. Craig, Dumbarton, } Equal.

CLASS IV.

1. George W. Shearer, Glasgow. | 2. Alexander G. Craig, Dumbarton.

Next in Order of Merit.

3. Robert D. Cassells, Glasgow. | 4. Frank B. Zahm, U.S.A.

CLASS III.

1. George W. Shearer, Glasgow. | 2. Robert D. Cassells, Glasgow.

Next in Order of Merit.

3. { Mungo M. Fairgrieve, Saltcoats, }  
 { John Orr, Torrance, } Equal.

CLASS I.

1. John Orr, Torrance. | 2. John Wilson, Greenock.

Next in Order of Merit.

3. William R. Wilson, Greenock.

SENIOR CLASS OF ENGINEERING DRAWING AND CALCULATION.

1. Joseph B. Paterson, Glasgow. | 2. Robert D. Cassells, Glasgow.

Next in Order of Merit.

3. George Blair, Glasgow. | 4. John Orr, Torrance.

MIDDLE CLASS OF ENGINEERING DRAWING AND CALCULATION.

1. { William Caird, Paisley, }  
 { Andrew Dunn, Kilmarnock, } Equal.

## JUNIOR CLASS OF ENGINEERING DRAWING AND CALCULATION.

1. John Wilson, Greenock.
2. { Robert Lawrie, Bothwell, } Equal.  
       { John M. Maclean, Glasgow, }

## NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

PROFESSOR J. H. BILES.

SENIOR CLASS.

Frank B. Zahm, U.S.A.

John E. MacIlwaine, Belfast, for Excellence in Drawing Class Work.

JUNIOR CLASS.

Wilfrid V. N. Powelson, U.S.A.

Robert D. Cassells, Glasgow, as Best Engineering Student.

## MATHEMATICS.

PROFESSOR WILLIAM JACK, LL.D.

HONOURS CLASS.

CUNNINGHAME GOLD MEDAL.

William Craig Henderson.

INTERMEDIATE HONOURS CLASS.

- |   |                         |
|---|-------------------------|
| 1. George D. Valentine.   | 2. Adam B. Stewart.     |
| Mr. Stewart obtains the Muir Senior Mathematical Bursary on the result of the Class Examinations, under the usual conditions. |                         |
| 3. James Muir.  | 4. Elizabeth P. Taylor. |

SECOND CLASS.

*Division A.*

1. William Fulton.
2. Robert Walker.
3. Sarah L. Blair.
4. { William J. C. Helme.  
       { David Morton.  
       { Archibald M. Smith.

*Division B.*

1. Peter W. Monie.
2. { James E. Henderson.  
       { John Jeffrey.
4. { John Brash.  
       { William W. Fulton.  
       { James C. Ker.

FOR WRITTEN EXAMINATIONS—Open to both Divisions of the Class.

SECOND CLASS.

- |                    |                    |
|--------------------|--------------------|
| 1. William Fulton. | 2. Peter W. Monie. |
|--------------------|--------------------|

Mr. Fulton obtains the Muir Junior Mathematical Bursary on the result of the Class Examinations, under the usual conditions.

FIRST CLASS.

- |                    |                      |
|--------------------|----------------------|
| 1. Peter Couper.   | 3. { Mabel Atkinson. |
| 2. Mungo Ferguson. | { James Paton.       |

## MATHEMATICS.

*Summer, 1893.*

LECTURER—GEORGE A. GIBSON, M.A.

PRIZE—John Stewart, Gartsherrie Schoolhouse, Coatbridge.

## NATURAL PHILOSOPHY.

PROFESSOR LORD KELVIN, LL.D., D.C.L., Pres. R.S.

FIRST YEAR STUDENTS.

- |                                    |                                  |
|------------------------------------|----------------------------------|
| 1. James Muir, Glasgow.            | 5. Andrew Robertson, Kilmarnock. |
| 2. James Moffat, Campbeltown.      | 6. Peter D. Pringle, Glasgow.    |
| 3. John Young, Glasgow.            | 7. Thomas Scott, Perth.          |
| 4. Alexander B. McLennan, Glasgow. | 8. John Miller, Glasgow.         |

- |     |  |     |   |
|-----|--|-----|---|
| 9.  | { James Davidson, Greenock.<br>Ephraim M. Henderson, Ayr.      |     | { William Boyd, Kilmarnock.<br>John Duncan, Glasgow.        |
|     | { Mungo M. Fairgrieve, Saltcoats.<br>John L. Tulloch, Glasgow. | 14. | { William W. Fulton, Beith.<br>Ranald Macdonald, Benbecula. |
| 11. | { Henry A. Williamson, Lesmahagow.                             |     | { Samuel J. Murray, Glasgow.                                |

## SECOND YEAR STUDENTS.

James S. Dunlop, Greenock.

## HIGHER COURSE.

{ James W. Peck, Glasgow.

{ Charles S. Dougall, Kippen.

## PHYSICAL LABORATORY.

{ Lewis A. Smart, Glasgow.

{ David M. Moore, Glasgow.

## MORAL PHILOSOPHY.

PROFESSOR EDWARD CAIRD, LL.D., D.C.L.

## A. Prizes for General Eminence in the Essays, Exercises, and Examinations of the Class.

- |    |   |     |   |
|----|---|-----|---|
| 1. | (Buchanan Prize) William Boyd, Kilmarnock.                  |     | { Peter D. Pringle, Glasgow.<br>Robert Simpson, Gourrock.   |
| 2. | William Gow, Coupar-Angus.                                  | 9.  | { Jas. Wotherspoon, Coatbridge.<br>William Watson, Busby.   |
| 3. | William K. Gillies, Beith.                                  |     | { Archibald M'Callum, Glasgow.<br>Robert Y. Howie, Paisley. |
| 4. | Samuel H. M'Ewing, Glasgow.                                 | 13. | { John Fulton, Glasgow.<br>John F. Cunningham, Glasgow.     |
| 5. | William Morrison, Cardross.                                 |     |   |
| 6. | Angus King, Glasgow.  |     |   |
| 7. | { James Gillespie, Airdrie.<br>Joseph Shillinglaw, Glasgow. |     |   |

## B. Prizes for Summer Work.

For the best Examination on Ferrier's "Lectures" and Zeller's "Socrates"—  
 Hyam Goodman, Glasgow, }  
 James Gillespie, Airdrie, } Equal.

## HIGHER MORAL PHILOSOPHY CLASS.

## A. Prizes for Distinction in Written and Oral Examinations.

1. Henry N. Brailsford, Glasgow.

2. William R. Paterson, Glasgow.

## B. Prizes for Summer Work.

For the best Examination on Plato's Works—John A. Duke, Campsie.

## POLITICAL ECONOMY.

LECTURER—WILLIAM SMART, M.A., LL.D.

1. Joseph Ferguson M'Fadyen, Glasgow.

2. William Boyd, Glasgow.

Prize for Preparatory Reading—Joseph Kirkland, Glasgow.

## LOGIC AND RHETORIC.

PROFESSOR JOHN VEITCH, LL.D.

- I. For Eminence in the Work of the Class during the Session as shown in Oral and Written Examinations and Essays.

First Prize over the Class (Buchanan Prize)—  
Hyam Goodman, Glasgow.

SENIOR DIVISION.

1. Maxwell R. Kirkpatrick, Dalbeattie.
2. Coll A. Macdonald, Iona.
3. William K. Gillies, Beith.
4. John Cochran, Paisley,
5. William L. Parkin, Northampton, } Equal.
6. William G. Bell, Greenock.
7. William C. Mitchell, Glasgow.
8. Thomas F. Kinloch, Cardiff, }
9. William C. Miller, Lenzie, } Equal.
10. Matthew Aikman, Glasgow.
11. John Gray, Carlisle.
12. Robert Wiseman, Muirkirk, Ayrshire.

JUNIOR DIVISION.

- I. John L. Wark, Glasgow. | 2. John J. Todd, Paisley.

II. Work prepared during the Summer Vacation.

A. Students of Session 1893-94.

Preliminary Examination in Institutes of Logic and Descartes.

1. William K. Gillies, Beith. | 2. Hyam Goodman, Glasgow.

B. Students of Session 1892-93.

(a) ESSAY—Evolution.

William Boyd, Kilmarnock.

(b) READING—Hamilton's Discussions.

Samuel H. M'Ewing, Glasgow.

HIGHER CLASS OF LOGIC AND METAPHYSICS.

ESSAY—Methods of Kant and Hegel.

1. William R. Paterson, Glasgow. | 2. Henry N. Brailsford, Glasgow.

General Written Examination.

John A. Duke, Campsie.

ENGLISH LITERATURE.

PROFESSOR ANDREW C. BRADLEY, M.A.

A. Prizes for Eminence in the Exercises, Essays, and  
Examinations of the Class.

- |   |                                     |
|---|-------------------------------------|
| 1. (The Buchanan Prize) Ephraim<br>M. Henderson, Ayr. | 8. { James Eadie, Glasgow.          |
| 2. { James Adam, Glasgow.                             | 10. { Hyam Goodman, Glasgow.        |
| 4. { David H. Crawford, Ayr.                          | 11. { Henry W. Cochran, Glasgow.    |
| 5. { Joseph F. M'Fadyen, Glasgow.                     | 14. { William C. Miller, Lenzie.    |
| 7. { Andrew Robertson, Kilmarnock.                    | 15. { Robert Simpson, Gourrock.     |
|   | 16. { George Bain, Glasgow.         |
|   | 17. { Harry Hodge, Glasgow.         |
|   | 18. { J. M. Templeman, Blairgowrie. |

SPECIAL PRIZE—Andrew D. Murdoch, Paisley.

B. Prizes for Vacation Work.

1. (For Students of Session 1892-93), John A. Duke, Campsie.
2. (For Students of Session 1893-94), Ephraim M. Henderson, Ayr.



## GREEK.

PROFESSOR GEORGE G. A. MURRAY, B.A.

I. Prizes for General Excellence in Work during the Session.

SENIOR AND PRIVATE CLASS, 2 P.M.

CLASS PRIZES.

- |                     |                     |
|---------------------|---------------------|
| 1. George S. Adams. | 3. John Buchan.     |
| 2. Gavin Scott.     | 4. John S. Thomson. |

PROSE DURING SESSION—John Charles Scott.

UNSEEN TRANSLATION WITH THE CLARK FELLOW—William Gow.

SENIOR CLASS, 8 A.M.

JEFFREY GOLD MEDAL—John W. Henderson.

ORDINARY PRIZES.

- |                      |                         |
|----------------------|-------------------------|
| 1. James P. Brander. | 6. David H. Tweeddale.  |
| 2. Robert D. Bell.   | 7. John Buchan.         |
| 3. Adam Hamilton.    | 8. George H. Valentine. |
| 4. James M'Murtrie.  | 9. Alexander Fraser.    |
| 5. Thomas E. Jones.  | 10. Joseph White.       |

11. Allan Gibson.

PROSE DURING SESSION—John W. Henderson.

UPPER MIDDLE CLASS, 10 A.M.

SCOTT-MACFARLAN GOLD MEDAL—Horace F. Wallace.

ORDINARY PRIZES.

- |                    |                       |
|--------------------|-----------------------|
| 1. William Fulton. | 4. James L. Skilling. |
| 2. Peter W. Monie. | 5. George Dock.       |
| 3. John Murphy.    | 6. Robert J. T. Bell. |
| 7. David L. Blair. |                       |

LOWER MIDDLE CLASS, 10 A.M.

ORDINARY PRIZES.

- |                       |                          |
|-----------------------|--------------------------|
| 1. Matthew Turnbull.  | 3. James Thomson.        |
| 2. Neil S. Snodgrass. | 4. William R. M'Cracken. |
| 5. Norman Fleming.    |                          |

JUNIOR CLASS, 12 Noon.

ORDINARY PRIZES.

- |                        |                   |
|------------------------|-------------------|
| 1. Mungo Ferguson.     | 2. Walter Arroll. |
| 3. William B. Thomson. |                   |

II. Prizes for Vacation Work.

1. GREEK PROSE—

George S. Adams. | William Cumming.

2. EXAMINATION IN SOPHOCLES, ŒDIPUS TYRANNUS—Adam Hamilton.

BLACKSTONE EXAMINATION.

COWAN GOLD MEDAL—William Gregory Bell.

## GREEK.

*Summer, 1893.*

LECTURER—RONALD M. BURROWS, B.A.

PRIZE—Charles R. Dunlop, Glasgow.

## HUMANITY.

PROFESSOR GEORGE G. RAMSAY, M.A., LL.D., Litt.Doc.

## I. Prizes for General Eminence during the Session, awarded according to the Result of Written Examinations.

## JUNIOR CLASS, 8 A.M.

1. Mungo Ferguson, Caithness (Stirling High School).
2. William H. Kirk, Partick (Hamilton Crescent School).
3. William B. Thomson, Glasgow (Free Normal Public School).

## MIDDLE CLASS, AT 8 AND 11 A.M.

1. William Fulton, Glasgow (Glasgow High School).
2. Peter W. Monie, Rothesay (Irvine Royal Academy).
3. Robert J. T. Bell, Falkirk (Hamilton Academy).
4. George Dock, Paisley (Paisley Grammar School).
5. William Fulton, Hurlford (Campbellfield Public School).
6. John Murphy, Lanark (Lanark Grammar School).
7. Robert M'Ewan, Paisley (Paisley Grammar School).

## SENIOR CLASS, 9 A.M.

1. Cowan Gold Medallist and First Prizeman—James P. Brander, Glasgow (Kelvinside Academy).
2. Horace F. Wallace, Hamilton (Glasgow High School).
3. Robert D. Bell, Greenock (Kilblain Academy, Greenock).
4. Adam Hamilton, Paisley (Paisley Grammar School).
5. John W. Henderson, Glasgow (Garnethill School).
6. Allan Gibson, Paisley (Neilston Institution).
7. Helen Rutherford, Glasgow (Albion Crescent School).

## SENIOR AND PRIVATE CLASS, 1 P.M.

The Muirhead Prize, for the Best Examination on the Lectures and Prelections delivered during the Session. The Books read were :—Plantus, *Rudens*; Juvenal, *Satires* VII. to XI. ; Tacitus, *Annals* IV. ; Virgil, *Æneid* IX.

1. John C. Scott, Carlisle (Carlisle Grammar School).
2. Gavin Scott, Lesmahagow (Hamilton Academy).
3. William K. Gillies, Beith (Spiers' Academy).

## FOR LATIN PROSE COMPOSITION.—SENIOR CLASS.

## SECTION I.

William Gow, Coupar-Angus (Dundee High School), } Equal.  
 Horace F. Wallace, Hamilton (Glasgow High School), }

## SECTION II.

Robert D. Bell, Greenock (Kilblain Academy).

## VACATION EXERCISES.

I. For the Best Examination in Livy, *Book* XXI. ; Horace, *Odes* I. ; Virgil, *Georgics* I.

## OPEN TO THE SENIOR CLASS OF 1893-94.

Adam Hamilton, Paisley (Paisley Grammar School).

II. For the Best Examination in Virgil, *Æneid* V. 1-449 ; Cicero, *De Senectute*.

## OPEN TO MEMBERS OF JUNIOR CLASS OF 1892-93.

No competition.

## III. For Latin Prose.—For the Best Latin Essay on “The Character of Tiberius as drawn by Tacitus.”

## OPEN TO ALL MEMBERS OF THE SENIOR CLASS OF 1892-93.

No competition.

IV. For Latin Prose.—For translation of certain pieces from Ramsay's Latin Prose, Vol. II.

OPEN TO ALL STUDENTS IN THE SENIOR CLASS OF 1893-94.

Adam Hamilton, Paisley (Paisley Grammar School).

V. For Latin Prose.—For the Best Translation from "The Student's Rome."

OPEN TO ALL MEMBERS OF THE JUNIOR CLASS OF 1892-93.

John A. M'Cormick, Arisaig (Pennyghael Public School).

THE BLACKSTONE EXAMINATION.

Cowan Gold Medal—George S. Adams, Hamilton (St. John's Grammar School).

## LATIN.

*Summer, 1893.*

LECTURER—JOHN BROWN, M.A.

PRIZE—James W. Peck, Partick.

## WOMEN'S DEPARTMENT.

### LATIN.

PROFESSOR G. G. RAMSAY, LL.D., JOHN BROWN, M.A., AND DANIEL RANKIN, B.A.

Helen Rutherford—See under Men's Department, Senior Latin, 9 A.M.

### GREEK.

PROFESSOR G. G. MURRAY, B.A., AND GEORGE MACDONALD, B.A.

FIRST-CLASS CERTIFICATES.

Grace F. Hay. | Jane E. Malloch.

Constance Tannahill.

### ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR A. C. BRADLEY, M.A., AND WM. THOMSON, M.A.

Prize for Eminence in Essays and Examinations.

Kathleen V. Bannatyne.

### LOGIC AND METAPHYSICS.

PROFESSOR JOHN VEITCH, LL.D., AND R. M. WENLEY, D.Sc.

PRIZE AND FIRST-CLASS CERTIFICATE.

Sarah L. Blair.

### MORAL PHILOSOPHY.

PROFESSOR EDWARD CAIRD, D.C.L., AND R. A. DUFF, M.A.

PRIZES AND FIRST-CLASS CERTIFICATES.

1. Mary C. Crum.

2. { Agnes M. Tannahill, } Equal.  
     { Isobel Yuill, }

## MATHEMATICS.

PROFESSOR WILLIAM JACK, LL.D. ; GEORGE A. GIBSON, M.A. ; AND  
DANIEL LAMONT, M.A.

Elizabeth P. Taylor, }  
Sarah L. Blair,        }  
Mabel Atkinson,        } See under Men's Department.

## NATURAL PHILOSOPHY.

PROFESSOR JAMES BLYTH, M.A., F.R.S.E.

FIRST-CLASS CERTIFICATE.

Isabella Blacklock.

## PHYSICS.

PROFESSOR JAMES BLYTH, M.A., F.R.S.E.

PRIZES AND FIRST-CLASS CERTIFICATES.

1. Agnes L. Stiell. | 2. Mabel C. Poulter.

FIRST-CLASS CERTIFICATES.

3. Eva M'Call. | 4. Marion J. Ross.

SECOND-CLASS CERTIFICATES.

5. Auguste Boyes. | 6. Margaret W. H. M'Neil.

7. Jane Grant.

## ZOOLOGY.

PROFESSOR JOHN YOUNG, M.D., AND JAMES RANKIN, B.Sc.

FIRST-CLASS CERTIFICATE.

Marion J. Ross.

SECOND-CLASS CERTIFICATES.

Mary Longmire. | Maud Spencer.

## BOTANY.

*Summer, 1893.*

LECTURER—A. S. WILSON, B.Sc.

FIRST-CLASS CERTIFICATE.

Mary Longmire.

SECOND-CLASS CERTIFICATES.

Jessie H. Smith. | Mary L. M'Neill.  
Marion J. Ross. | Agnes R. Robson.

Maud Spencer.

## CHEMISTRY.

LECTURER—THOMAS GRAY, B.Sc.

SYSTEMATIC.

PRIZE AND FIRST-CLASS CERTIFICATE.

Mabel Atkinson.

FIRST-CLASS CERTIFICATES.

Agnes L. Stiell. | Eva M'Call.  
Marion J. Ross.

## SECOND-CLASS CERTIFICATE.

Mabel C. Poulter.

## PRACTICAL.

## PRIZE AND FIRST-CLASS CERTIFICATE.

Mabel C. Poulter.

## FIRST-CLASS CERTIFICATES.

Agnes L. Stiell.

Margaret W. H. M'Neil.  
Eva M'Call.

## SECOND-CLASS CERTIFICATES.

Marion J. Ross.

Mary Longinire.  
Maud Spencer.

## JUNIOR ANATOMY.

LECTURER—THOMAS H. BRYCE, M.A., M.B.

## FIRST-CLASS CERTIFICATES.

Jessie H. Smith.

Daisy A. Bennett.

## SECOND-CLASS CERTIFICATES.

Mary N. Sharman.  
Mary Gardner.Margaret E. M'Neill.  
Agnes R. Robson.

## PHYSIOLOGY.

PROFESSOR JOHN G. M'KENDRICK, M.D., LL.D., F.R.S., AND WILLIAM  
SNODGRASS, M.A., M.B.

## FIRST-CLASS CERTIFICATES.

1. Madge S. Maclean.

2. Jessie H. Smith.  
3. Daisy A. M. Clark.

## SECOND-CLASS CERTIFICATE.

4. Mary N. Sharman.

## PRACTICAL PHYSIOLOGY.

*Summer, 1893.*

LECTURER—J. M'GREGOR ROBERTSON, M.A., M.B.

## SECOND-CLASS CERTIFICATES.

Mary Gardner.

Daisy A. M. Clark.

Agnes R. Robson.  
Jessie H. Smith.  
Margaret E. M'Neill.

## MATERIA MEDICA AND THERAPEUTICS.

LECTURER—CHARLES O. HAWTHORNE, M.B.

## FIRST-CLASS CERTIFICATES.

Emmeline M. Stuart.

Agnes J. Anderson.

## SECOND-CLASS CERTIFICATES.

Edith E. Goodrich.  
Lucy Buckley, B.Sc.Mary B. Hannay, } Equal.  
Mary R. Riddall, }

## PATHOLOGY.

LECTURER—JOHN LINDSAY STEVEN, M.D.  
SYSTEMATIC.

## FIRST-CLASS CERTIFICATES.

- |                        |  |                       |
|------------------------|--|-----------------------|
| 1. Emmeline M. Stuart. |  | 2. Edith E. Goodrich. |
|                        |  | 3. Mildred Ransome.   |

PRACTICAL—*Summer*, 1893.

## FIRST-CLASS CERTIFICATES.

- |                         |  |                         |
|-------------------------|--|-------------------------|
| 1. Alice L. L. Cumming. |  | 2. Elizabeth D. Lyness. |
|-------------------------|--|-------------------------|
- 

## SURGERY.

LECTURER—WILLIAM JAMES FLEMING, M.D.

## FIRST-CLASS CERTIFICATES.

- |                      |  |                        |
|----------------------|--|------------------------|
| 1. Madge S. Maclean. |  | 2. Lucy Buckley, B.Sc. |
|----------------------|--|------------------------|

## SECOND-CLASS CERTIFICATES.

- |                    |  |                           |
|--------------------|--|---------------------------|
| 3. Mary P. Graham. |  | 4. Mary R. Riddall.       |
|                    |  | 5. Roberta H. M. Stewart. |
- 

## MEDICINE.

LECTURER—J. WALLACE ANDERSON, M.D.

## FIRST-CLASS CERTIFICATES.

- |                     |          |  |                      |
|---------------------|----------|--|----------------------|
| Marion Gilchrist,   | } Equal. |  | Elizabeth D. Lyness. |
| Amy G. Lillingston, |          |  |                      |

## SECOND-CLASS CERTIFICATES.

- |                    |  |                      |
|--------------------|--|----------------------|
| Margaret C. Dewar. |  | Alice L. L. Cumming. |
|--------------------|--|----------------------|
- 

## MIDWIFERY.

PROFESSOR MURDOCH CAMERON, M.D.

## FIRST-CLASS CERTIFICATES.

- |                   |  |                      |
|-------------------|--|----------------------|
| Marion Gilchrist. |  | Elizabeth D. Lyness. |
|-------------------|--|----------------------|

## SECOND-CLASS CERTIFICATE.

Margaret C. Dewar.



## XI.—EXAMINATION QUESTIONS.

### I. PRELIMINARY EXAMINATION IN ARTS AND SCIENCE.

The papers in English, Latin, Greek, and Mathematics were the papers set in the Bursary Competition.

#### ENGLISH.

*October, 1893.*

#### FIRST PAPER—TWO HOURS.

*FIVE questions, neither more nor less, must be attempted. Two of these must be questions 1 and 2.*

1. Write an essay, about two pages long, on (a) Macbeth and Lady Macbeth—a contrast; or (b) The contrast between Court-life and Forest-life in *As You Like It*; or (c) The historical truthfulness of Scott's Portraits of Claverhouse and the Covenanters.

2. Paraphrase the following lines:—

O good old man, how well in thee appears  
The constant service of the antique world,  
When service sweat for duty, not for meed!  
Thou art not for the fashion of these times,  
Where none will sweat *but* for promotion,  
And having *that*, do choke their service up  
Even with the *having*: it is not so with thee.  
*But*, poor old man, thou prunest a rotten tree,  
That cannot *so much as* a blossom yield  
In lieu of all thy pains and husbandry.  
But come thy *ways*; we'll go along together,  
And ere we have thy youthful wages spent,  
We'll light upon some settled low content.

3. Analyze the above lines from 'O good old man' to 'Even with the having,' and parse fully the words in italics.

4. Give the derivation of eight of the following words:—*world*; *service*; *duty*; *fashion*; *pain*; *husbandry*; *separate*; *age*; *companion*; *pagan*; *melancholy*; *monk*; *pilgrim*; *wassail*; *yield*.

5. What are some of the more important changes that have taken place in the vocabulary of English since its introduction into Britain?

6. Criticise, and make any necessary alterations in, the following sentences :—

(a) You know my father hath no child but I, nor none is like to have.

(b) I am one of those who cannot describe what I do not see.

(c) I am neither an ascetic in theory or practice.

(d) I will have great pleasure in accepting your invitation.

(e) I should like very much to have heard him.

(f) I never remember to have had a more pleasant journey.

(g) Moving up the hill, the blazing building was more distinctly seen.

## SECOND PAPER—TWO HOURS.

SIX questions, neither more nor less, must be attempted. Of these TWO must be selected from Section I., TWO from Section II., and TWO from Section III.

### SECTION I.

1. Give a brief sketch of the life of Spenser, or Milton, or Pope, or Wordsworth, and an account of one of the leading poems of the author you may select.

2. Describe the characters of Jaques and of Rosalind.

3. Tell briefly the story of Scott's *Antiquary*.

4. State what you know about each of the following works :—*Leviathan* ; *Utopia* ; *Rasselas* ; *The Vicar of Wakefield* ; *Christabel* ; *In Memoriam*.

5. Explain and give the context of the following lines :—

(a) You must borrow me Gargantua's month first.

(b) Sweet are the uses of adversity,  
Which, like the toad, ugly and venomous,  
Wears yet a precious jewel in his head.

(c) Full of wise saws and modern instances.

(d) His two chamberlains  
Will I with wine and wassail so convince  
That memory, the warder of the brain,  
Shall be a fume, and the receipt of reason  
A limbec only.

(e) Come, seeling night,  
Scarf up the tender eye of pitiful day.

(f) Thou hast no speculation in those eyes.

### SECTION II.

1. Give an account of any four of the following :—Boadicea ; Agricola ; Bede ; Anselm ; Simon de Montfort ; Alexander III. ; James I. ; Henry V. ; Wolsey ; Cranmer ; Lady Jane Grey.

2. Describe briefly, and explain the importance of, the historical events associated with any two of the following :—Senlac Hill ; Runnymede ; Lewes ; Bretigny ; Mortimer's Cross ; Market-Bosworth ; Pinkie.

3. Give an account of the relation existing during any well-known period of British history before the accession of James VI. either (a) between English and Danes, English and Scots, or (b) between King and Barons, King and Parliament.

4. Estimate the historical importance of the Crusades. How do they enter into British history?

5. Trace the growth of the power of the House of Commons.

### SECTION III.

1. Compare the climate of Scotland with the climates of New Zealand, Australia, and Canada. How are these colonies governed?

2. Describe the situation, and give a brief account of the commercial importance, of any five of the following:—Liverpool; Belfast; Havre; Rotterdam; Hamburg; Odessa; Barcelona; Bombay; New Orleans; Montreal; Sydney.

3. Trace the route of the Canadian Pacific Railway, and describe its local and international advantages.

4. Locate precisely, and state what you know about, eight of the following:—Lakes of Killarney; Gulf of Lions; Valdai Hills; Khartoum; Lima; Monte Video; Quito; Brisbane; Dunedin; San Francisco; Winnipeg; Kandahar; Brindisi; Auckland; Lake Tanganyika; the Golden Horn.

## LATIN.

October, 1893.

### I. GRAMMAR AND SENTENCES.

#### I. LOWER STANDARD.

1. Give the gender, abl. sing. and gen. plur. of—*manus*, *sitis*, *mare*, *canis*, *pulvis*, *radix*; and write out the plural of—*facilis*, *quis*, *hic*; and the singular of *neuter*.

2. Compare—*malus*, *humilis*, *vetus*, *diu*; and write down the perf. indic. (1st sing.) and the supine of—*indulgeo*, *cupio*, *verto*, *gaudeo*, *praesto*, *posco*.

3. Form the following:—

- (a) 2nd sing. pres. imper. of *nolo*.
- (b) 3rd plur. fut. ind. act. of *eo*.
- (c) 2nd sing. imperf. subj. pass. of *capio*.
- (d) 3rd plur. fut. indic. of *possum*.
- (e) 3rd sing. pres. indic. of *malo*.
- (f) 2nd sing. pres. imper. act. of *facio*.
- (g) dat. sing. of pres. part. of *abeo*.
- (h) voc. sing. of *jilius*.
- (i) locative of *domus*; and
- (j) distinguish *ducere* and *ducere*.

4. By what cases are (a) *length of time*, (b) *place where*, with the proper names of towns, (c) *price*, (d) *height*, and (e) *distance* expressed in Latin?

5. Translate into Latin :—

- (a) No one will be so foolish as to ask this.
- (b) You promised to give those fields to us.
- (c) They came to injure, they remain to help us.
- (d) No one will prevent you from doing what you wish.
- (e) This is what in that crisis you ought to have done.
- (f) Be sure you let me know, when you are going to start.
- (g) If you do this, I shall be the first to assist you.
- (h) So far am I from trusting you, that I know you are telling lies.
- (i) If he had been a man of courage, he would never have refused to undertake this task.
- (j) The better the day, the better the deed.

## 2. HIGHER STANDARD.

1. Decline in the singular *domus*, *pulvis*, *caro*; and in the plural *plus*, *ingens*, *vetus*; give the perf. indic. 1st sing. and the supine of *vivo*, *finjo*, *diligo*; and write down (a) the 2nd sing. pres. imper. of *interficio*, (b) the 2nd sing. pres. indic. pass. of *capio*, (c) the supine of *agnosco*.

2. Form (a) adverbs from *facilis*, *constans*, *largus*;

(b) frequentatives from *capio*, *curro*, *venio*;

(c) inceptives from *augeo*, *vespera*, *tremo*;

(d) diminutives from *ager*, *navis*, *homo*;

and give the signification of the (a) prefixes in *sub-rideo*, *de-disco*, *con-cito*, and (b) suffixes in *cap-ax*, *form-osus*, *fac-ilis*.

3. How is the future infinitive passive formed in Latin verbs? Give examples of its use, and of the substitutes for it where it is not in use.

4. What constructions are used with (a) *oportet*, (b) *interest*, (c) *pulet*, and what moods with *quamquam*, *quamvis*, *quando*, *ut* (concessive), *forsitan*, *licet*?

5. Show how the following Latin words differ in meaning from their English derivatives, and construct a Latin sentence to illustrate each—*honestus*, *securus*, *fatalis*, *officium*, *familia*, *obtinere*.

6. Translate into Latin :—

(a) If I had believed that there was sufficient reason for making so many complaints, I should have been present sooner.

(b) The soldiers replied that they now knew against whom they were marching; but that they objected to go, because they had been hired for a different reason.

(c) The Consul retained his courage even in that terrible hour; he attempted to arrange his troops and to send orders to his lieutenants; baring his head, he called on the men around him to stand and fight.

(d) 'We cannot,' he cried, 'escape from here by vows and prayers, but by strength and courage. Let your swords flash; the less your panic, the less assuredly your danger.'

## II. TRANSLATION.

## I. LOWER STANDARD.

*Caesar's opponent in difficulties.*

1. Literis perlectis, Domitius dissimulans, in concilio pronuntiat Pompeium celeriter subsidio venturum; hortaturque eos ne animo deficiant, quaeque usui ad defendendum oppidum sint, ut parent. Ipse arcano cum paucis familiaribus suis colloquitur consiliumque fugae capere constituit. Quum vultus Domitii cum oratione non consentiret, atque omnia trepidantius timidiusque ageret quam superioribus diebus consuesset, multumque cum suis consiliandi causa secreto praeter consuetudinem colloqueretur, concilia conventusque hominum fugeret, res diutius tegi dissimularique non potuit. Pompeius enim rescripserat sese rem in summum periculum deducturum non esse; neque suo consilio aut voluntate, Domitium se in oppidum Corfinium contulisse: proinde si qua facultas fuisset, ad se cum omnibus copiis veniret. Id ne fieri posset, obsidione fiebat atque oppidi circummunitione, quam Caesar faciendam curaverat.

Parse—*perlectis, venturum, usui, trepidantius, consuesset, consiliandi, colloqueretur, contulisse, qua, fieri.*

*Aesop defends mental relaxation.*

2. Puerorum in turba quidam ludentem Atticus Aesopum nucibus quum vidisset, restitit, Et quasi delirum risit. Quod sensit simul Derisor potius quam deridendus Senex, Arcum retensum posuit in media via: 'Heus,' inquit, 'Sapiens, expedi, quid fecerim?' Concurrit populus. Ille se torquet diu, Nec quaestionis positae causam intelligit. Novissime succumbit. Tum victor sophus: 'Cito rumpes arcum, semper si tensum habueris, At si laxaris, quum voles, erit utilis.'

Parse—*nucibus, vidisset, restitit, simul, potius, deridendus, retensum, expedi, fecerim, diu, rumpes, habueris.*

## 2. HIGHER STANDARD.

*Scipio, before hearing of his brother's death, interprets the signs of approaching danger.*

1. Haud segniter inde duces Poeni fortuna usi confestim e proelio, vix necessaria quiete data militibus, ad Hasdrubalem Hamilcaris citatum agmen rapiunt, non dubia spe, si se coniunxissent, debellari posse. Quo ubi est ventum, inter exercitus ducesque victoria recenti laetos gratulatio ingens facta, imperatore tanto cum omni exercitu deleto et alteram pro haud dubia parem victoriam expectantes. Ad Romanos nondum quidem fama tantae cladis pervenerat, sed maestum quoddam silentium erat et tacita divinatio, qualis iam praesagientibus animis imminentis mali esse solet. Imperator ipse, praeterquam quod ab sociis se desertum, hostium tantum auctas copias sentiebat, conjectura etiam et ratione ad suspicionem acceptae cladis quam ad ullam bonam spem promior erat: quoniam modo enim Hasdrubalem ac Magonem, nisi

defunctos suo bello, sine certamine adducere exercitum potuisse? quomodo autem non obstitis aut ab tergo secutum fratrem, ut, si prohibere, quo minus in unum coirent et duces et exercitus hostium, non posset, ipse certe cum fratre coniungeret copias? His anxius curis id modo esse salutare in praesens credebat, cedere inde quantum posset; et inde una nocte, ignaris hostibus et ob id quietis, aliquantum emensus est iter.

*June from Juno.*

2. Hic quoque mensis habet dubias in nomine causas.  
 Quae placeant, positis omnibus ipse leges.  
 Facta canam, sed erunt, qui me finxisse loquantur,  
 Nullaque mortali numina visa putent.  
 Est deus in nobis, agitante calescimus illo:  
 Impetus hic sacrae semina mentis habet.  
 Fas mihi praecipue voltus vidisse deorum,  
 Vel quia sum vates, vel quia sacra cano.  
 Est nemus arboribus densum, secretus ab omni  
 Voce locus, si non obstreperetur aquis.  
 Hic ego quaerebam, coepta quae mensis origo  
 Esset, et in cura nominis huius eram.  
 Ecce deas vidi: non quas praeceptor arandi  
 Viderat, Ascræas cum sequeretur oves;  
 Horrueram tacitoque animum pallore fatebar.  
 Tum dea, quos fecit, sustulit ipsa metus.  
 Namque ait, o vates, ne volgi errore traharis,  
 Iunius a nostro nomine nomen habet.  
 Est aliquid nupsisse Iovi, Iovis esse sororem.  
 Fratre magis, dubito, glorier, anne viro.

### III. COMPOSITION.

#### 1. LOWER STANDARD.

*Scotland in the Fourteenth Century.*

During the long and terrible wars of which I have spoken, the condition of our country was very miserable. When castles were defended or taken, many battles fought, numbers of men wounded or slain, reflect what kind of lives the inhabitants were leading. The law could not be a protection to any one, because violence and the sword decided all things. If a farmer had by his labour raised a crop, he could hardly believe that he was likely to reap the grain; some armed man would appear bent on carrying off that which would feed his followers. Where so much lawlessness prevailed, there was little religious feeling; indeed the hearts of the people became so inclined to deeds of blood, that they did not hesitate to transgress every law of humanity and charity. Whole families were reduced to eat grass; others perished together in the woods of hunger; whole districts became so depopulated that wild deer, leaving the forests and the mountains, came near the cities and dwellings of men.

#### 2. HIGHER STANDARD.

*A Politic Reply.*

The ambassador in recommending the acceptance of the king's proposal as a means of gaining time, told to the council a story of a certain



king, who was so fond of an ass, that summoning his physician he ordered him to teach the animal to speak, upon pain of being himself put to death. The physician declared himself ready to undertake the case, but assured the king that his medicines were of such a nature that ten years must elapse before their effect began to be visible. On this understanding the king allowed him to set to work. Now one of the physician's friends seeing him busy about the animal, expressed his wonder that so wise a man should undertake what was contrary to nature, to which the physician replied: 'Do you not see that I have gained ten years' advantage? If I had refused the king's orders, I must have been instantly put to death; but as it is, a long interval must elapse, during which the king may die, the ass may die, or I may die myself. In either of the three cases, I am freed from my trouble.' 'So,' said the ambassador, 'if we, to avoid a bloody war, accept this treaty, we have the advantage of many years of peace, during which one cause out of many will probably arise, owing to which the treaty will be broken off.'

## GREEK.

September, 1893.

### I. GRAMMAR AND SENTENCES.

#### 1. LOWER STANDARD.

##### (a) GRAMMAR.

1. Give the gen. sing., acc. plur., and dat. plur. of—*ἵπποτης*, *νύξ*, *γένος*, *στάσις*, *ἡδύς*, and *χαρίεις*.

Compare—*μεστός*, *ῥάδιος*, *πλησίος*, *μάλα*.

2. Write out the plural of the first personal pronoun, and of *οὗτος* in the feminine only; and distinguish *ταῦτά* and *ταῦτα*, *ὅς* and *τίς*, *ὅδε* and *ἐκεῖνος*, *τίνος* and *τινός*.

Give the adverbs that correspond to the adjectives—*ἀγαθός*, *σώφρων*, *σαφέστατος*, *πολύς*, and the Greek ordinal numerals from 7 to 10 (inclusive).

#### 3. Write out in full—

(a) The imperf. indic. act. of *δηλώω*.

(b) The imperf. indic. of *εἰμί* (*Ιαμι*).

(c) The 1 aor. opt. mid. of *τρέπω*.

(d) The pluperf. indic. pass. of *παιδεύω*.

#### 4. Form (a) 2 aor. inf. act. of *ἔχω*.

(b) 3 plur. 2 perf. indic. act. of *πείθω*.

(c) Dat. plur. mase. 2 aor. part. of *βαίνω*.

(d) 1 plur. fut. indic. mid. of *κομίζω*.

(e) Dat. plur. fem. 1 aor. part. act. of *κρίνω*.

(f) 2 sing. 2 aor. imperf. act. of *γιγνώσκω*.

(g) 3 sing. imperf. indic. act. of *ρέω*.

(h) 2 sing. imperf. indic. of *ἐπίσταμαι*.

(i) 3 plur. 1 aor. subj. pass. of *τίθημι*.

(j) 1 plur. plupf. indic. act. of *στέλλω*.

5. Give the future, aorists, and perfects in use of the verbs—*παρασκευάζω, ἔημι, λείπω, βάλλω, and λαμβάνω.*

6. What cases follow verbs of *ruling, obeying, using?* How is the agent expressed in Greek after a passive verb?

7. What cases are governed in Attic prose by the prepositions *διά, παρά, and περί,* and with what different meanings? Give examples.

(b) SENTENCES.

1. After this he was led about through the city with his hands bound (*δέω*).

2. Being angry (*ὀργίζομαι*) for all these reasons, the ephors and the people resolved to punish (*σωφρονίζω*) them.

3. Whenever he comes down into her country, she welcomes (*ξενίζω*) him in the most magnificent fashion.

4. May the gods assist (*βοηθέω*) thee in this artifice (part. of *μηχανάομαι*).

5. After he had slain his brother he became king and ruled for thirty years.

6. As he went in advance, he burnt (*κατακαίω*) the boats, that Cyrus might not be able to cross.

7. The Greeks are greatly afraid of (*φοβέομαι*) Jason lest he should become tyrant.

8. I would be willing, if I did not think I was being deceived (*ἀπατάω*) by you.

2. HIGHER STANDARD.

(a) GRAMMAR.

1. Give the gen. sing., acc. plur., and dat. plur. of—*νεώς, πρέσβυς, ἀνὴρ, κρέας, ἡδύς, ἐστώς.*

Compare *ῥάδιος*, and *φίλος*; and write out the plural of *τοσοῦτος* in the feminine.

2. Write down the future, aorists, and perfects in use of the verbs—*σώζω, γινώσκω, ἀκούω, πάσχω, τέμνω*; and form—

(a) 2nd sing. pres. imperat. of *χράομαι*.

(b) 3rd plur. pres. indic. of *εἶμι* (*I shall go*).

(c) 2nd sing. perf. imperat. mid. of *μιμνήσκω*.

(d) 2nd plur. 2nd aor. subj. act. of *δίδωμι*.

(e) 1st. sing. perf. opt. of *κτάομαι*.

3. *Either* (1) Show how the following words are formed from their stems, and mark the significance of each part—*λαμβάνω, ἐπέισθσαν, τέθναθι, πέποιθα, θάσσων.*

Or (2) Give the rule for accents in (a) the finite parts of verbs; (b) the 2nd aor. part. act.; (c) the gen. plur. of nouns of the first declension; (d) the gen. and dat. of monosyllables of the third declension; and (e) accented penults when the last syllable is short.

Distinguish—*παιδεύσαι, παίδενσαι, παιδεύσαι.*

4. State with examples the chief uses of (a) the middle voice, and (b) the aorist tense in Greek.

5. Show when you would use *οὐ* and when *μή*, with the (a) indicative, and (b) infinitive. When is *μή οὐ* used?

## (h) SENTENCES.

1. None of us has done harm (*ἀδικέω*) to any one; let none therefore be afraid of any thing.

2. In case of our victory, the enemy will have no place to which to flee; but if we are ourselves worsted, we shall be able to reach safe ground.

3. You speak truly, he said, for if you had not lost the city, I should not have recovered it (*παραλαμβάνω*).

4. A scout (*κατάσκοπος*) had been sent forward to see how many the enemy were, and how they could be attacked.

5. He brought back word that if a certain height (*ἀκρά*) was seized, not one of the enemy could escape.

6. He does not deny that he was present when the murder took place, but asserts that he neither shared in nor was responsible for (*αἷτιος*) the deed.

7. By not accepting money he seemed worthy to receive it; for not to want (*δεῖσθαι*) money is more distinguished (*σέμνος*) even than to employ it well.

8. They have not lost so much by their defeat (*ἥσσα*) as they have gained in martial spirit and knowledge of war.

## II. TRANSLATION.

## 1. LOWER STANDARD.

A. *Mania succeeds to her husband's satrapy.*

Ἐσατράπευε δὲ Φαρναβάζω τῆς χώρας, ἕως μὲν ἔξη, Ζήνις Δαρδανεύς· ἐπειδὴ δὲ ἐκεῖνος νόσῳ ἀπέθανε, παρασκευαζομένου τοῦ Φαρναβάζου ἄλλω δοῦναι τὴν σατραπείαν, Μανία ἢ τοῦ Ζήνις γυνή, Δαρδανίς καὶ αὐτή, ἀναξεύσασα στόλον καὶ δῶρα λαβοῦσα, ὥστε καὶ αὐτῷ Φαρναβάζω δοῦναι καὶ χαρίσασθαι τοῖς δυναμένοις μάλιστα παρὰ Φαρναβάζω, ἐπορεύετο. ἔλθοῦσα δὲ ἐς λόγους εἶπεν, ὦ Φαρνάβαζε, ὁ ἀνὴρ σοι ὁ ἐμὸς καὶ τᾶλλα φίλος ἦν καὶ τοὺς φόρους ἀπεδίδου, ὥστε σὺ ἐπαινῶν αὐτὸν ἐτίμας. ἦν οὖν ἐγὼ σοι μηδὲν χεῖρον ἐκείνου ὑπηρετῶ, τί σε δεῖ ἄλλον σατράπην καθιστάναι; ἦν δὲ τί σοι μὴ ἀρέσκω, ἐπὶ σοὶ δῆπου ἔσται ἀφελομένῳ ἐμέ ἄλλω δοῦναι τὴν ἀρχήν. ἀκούσας ταῦτα ὁ Φαρνάβαζος ἔγνω δεῖν τὴν γυναικα σατραπεύειν. ἡ δ' ἐπεὶ κυρία τῆς χώρας ἐγένετο, τοὺς τε φόρους οὐδὲν ἡττον τάνδρὸς ἀπεδίδου, καὶ πρὸς τοῦτοις, ὅποτε ἀφικνοῖτο πρὸς Φαρνάβαζον, αἰετὶ δῶρα αὐτῷ, καὶ ὅποτε ἐκεῖνος ἐς τὴν χώραν καταβαίνει, πολὺ πάντων τῶν ὑπάρχων κάλλιστα καὶ ἥδιστα ἐδέχετο αὐτόν.

φόρος, tribute.

ὑπαρχος, a governor.

Parse—ἔξη, δοῦναι, εἶπεν, τᾶλλα, ὑπηρετῶ, καθιστάναι, δεῖν, ἀπεδίδου, ἀφικνοῖτο, γυναικα, ἥδιστα, ἐδέχετο.

B. *The Deathbed of Pericles.*

Ἦδη δὲ πρὸς τῷ τελευτᾷ ὄντος αὐτοῦ περικαθήμενοι τῶν πολιτῶν οἱ βέλτιστοι καὶ τῶν φίλων οἱ περιόντες λόγον ποιοῦντο τῆς ἀρετῆς καὶ τῆς δυνάμεως, ὅση γένοιτο, καὶ τὰς πράξεις ἀνεμετροῦντο καὶ τῶν τροπαίων τὸ πλῆθος· ἐννέα γὰρ ἦν αἱ στρατηγῶν καὶ νικῶν ἔστησεν ὑπὲρ τῆς πόλεως. ταῦτα, ὡς οὐκέτι σινιέντος, ἀλλὰ καθηρημένου τὴν αἴσθησιν αὐτοῦ

διελέγοντο πρὸς ἀλλήλους· ὁ δὲ πᾶσιν ἐτύγχανε τὸν νοῦν προσεσχηκώς, καὶ φθεγξάμενος εἰς μέσον ἔφη θαυμάζειν, ὅτι ταῦτα μὲν ἐπαινοῦσιν αὐτοῦ καὶ μνημονεύουσιν, ἀ καὶ πρὸς τύχην ἐστὶ κοινὰ καὶ γέγονεν ἤδη πολλοὺς στρατηγούς, τὸ δὲ κάλλιστον καὶ μέγιστον οὐ λέγουσιν. ‘οὐδεὶς γὰρ’ ἔφη ‘δὲ’ ἐμὲ τῶν ὄντων Ἀθηναίων μέλαν ἰμάτιον περιεβάλετο.’

συνίημι, I understand.

καθαίρῳ, I deprive of.

Parse—περικαθήμενοι, ἔστησεν, συνιέντος, προσεσχηκώς, γέγονε, περιεβάλετο.

Why is γένοιτο in the optative mood, and αἰσθησιν in accus. case?

## 2. HIGHER STANDARD.

### I.

“Α λογιζόμενος, ἔφη ὁ Κριτόβουλος, πάνν ἀθύμως ἔχω πρὸς τὴν τῶν φίλων κτῆσιν· οὔτε γὰρ τοὺς πονηροὺς ὁρῶ φίλους ἀλλήλοις δυναμένους εἶναι· πῶς γὰρ ἂν ἡ ἀχάριστοι ἢ ἀμελεῖς ἢ πλεονέκται ἢ ἄπιστοι ἢ ἀκρατεῖς ἄνθρωποι δύναιντο φίλοι γενέσθαι; Οἱ μὲν οὖν πονηροὶ πάντως ἔμοι γε δοκοῦσιν ἀλλήλοις ἐχθροὶ μᾶλλον ἢ φίλοι πεφυκέναι. Ἄλλὰ μὴν, ὥσπερ σὺ λέγεις, οὐδ’ ἂν τοῖς χρηστοῖς οἱ πονηροὶ ποτε συναρμόσειαν εἰς φιλίαν· πῶς γὰρ οἱ τὰ πονηρὰ ποιοῦντες τοῖς τὰ τοιαῦτα μισοῦσι φίλοι γένοιντ’ ἂν; Εἰ δὲ δὴ καὶ οἱ ἀρετὴν ἀσκούντες στασιάζουσὶ τε περὶ τοῦ πρωτεύειν ἐν ταῖς πόλεσι, καὶ φθονοῦντες ἑαυτοῖς μισοῦσιν ἀλλήλους, τίνες ἔτι φίλοι ἔσσονται, καὶ ἐν τίσιν ἀνθρώποις εὖνοια καὶ πίστις ἔσται; Ἄλλ’ ἔχει μὲν, ἔφη ὁ Σωκράτης, ποικίλως πως ταῦτα, ὦ Κριτόβουλε. φύσει γὰρ ἔχουσιν οἱ ἄνθρωποι τὰ μὲν φιλικὰ· δέονται γὰρ ἀλλήλων, καὶ ἐλεοῦσι, καὶ συνεργοῦντες ὠφελουσί, καὶ τοῦτο συνιέντες χάριν ἔχουσιν ἀλλήλοις· τὰ δὲ πολεμικά· τὰ τε γὰρ αὐτὰ καλὰ καὶ ἡδέα νομίζοντες, ὑπὲρ τούτων μάχονται, καὶ διχογνωμονοῦντες ἐναντιοῦνται· πολεμικὸν δὲ καὶ ἔρις καὶ ὀργή· καὶ δυσμενὲς μὲν ὁ τοῦ πλεονεκτεῖν ἔρως, μισητὸν δὲ ὁ φθόνος. Ἄλλ’ ὅμως διὰ τούτων πάντων ἡ φιλία διαδυομένη συνάπτει τοὺς καλοὺς τε καγαθοὺς.

### II.

Translate *one* of the following passages :—

(a)

*Friendship of Pylades and Orestes.*

OP. Ἀπόδος τὸ σῶμα πατρί, μὴ σύνθησκέ μοι.  
σοὶ μὲν γὰρ ἔστι πόλις, ἐμοὶ δ’ οὐκ ἔστι δῆ,  
καὶ δῶμα πατρὸς καὶ μέγας πλοῦτου λιμήν.  
γάμων δ’ ἀδελφῆς τῆς ἐμῆς τῆσδ’ ἐσφάλης  
ἦν σοι κατηγγύησ’, ἐταιρίαν σέβων.  
ἀλλ’, ὦ ποθεινὸν ὄνομ’ ὁμιλίας ἐμῆς,  
χαῖρ’· οὐ γὰρ ἡμῖν ἔστι τοῦτο, σοὶ γε μὴν·  
οἱ γὰρ θανόντες οὐκ ἴσασι χάρματα.

ΠΤ. ἡ πολὺ λέλειψαι τῶν ἐμῶν βουλευμάτων.  
μήδ’ αἰμά μου δέξαιτο κάρπιμον πέδον,  
μὴ λαμπρὸς αἰθέρ, εἰ σ’ ἐγὼ προδοῦς ποτε  
ἐλευθερώσας τοῦμὸν ἀπολίποιμί σε.  
καὶ ξυγκατέκτανον γάρ, οὐκ ἀρνήσομαι,  
καὶ πάντ’ ἐβούλευσ’, ὦν σὺ νῦν τίνεις δίκας·  
καὶ συνθανεῖν οὖν δεῖ με σοὶ καὶ τῇδ’ ὁμοῦ.

(b)

*Hector resolves to face Achilles.*

Ὡς τῷ γε κλαίοντε προσαιδήτην φίλον υἱόν,  
πολλὰ λισσομένω· οὐδ' ἔκτορι θυμὸν ἔπειθον,  
ἀλλ' ὅ γε μὲν Ἀχιλλῆα πελώριον ἄσπον ἰόντα.  
ὥς δὲ δράκων ἐπὶ χειρὶ ὀρέστερος ἄνδρα μένησιν,  
βεβρωκὼς κακὰ φάρμακ'· ἔδυν δέ τ' ἐμιν χόλος αἰνός.  
σμερδαλέον δὲ δέδορκεν ἐλίσσόμενος περὶ χειρὶ·  
ὥς ἔκτωρ ἄσβεστον ἔχων μένος οὐχ ὑπεχώρει,  
πύργῳ ἔπι προὔχοντι φαεινὴν ἀσπίδ' ἐρείσας.  
ὀχθήσας δ' ἄρα εἶπε πρὸς δυν μεγαλήτορα θυμόν

“ὦ μοι ἐγών, εἰ μὲν κε πύλας καὶ τείχεα δύνω,  
Πουλυδάμας μοι πρῶτος ἐλεγχείην ἀναθήσει,  
ὅς μ' ἐκέλευε Τρωσὶ ποτὶ πτόλιν ἡγήσασθαι  
νύχθ' ὕπο τήνδ' ὀλοήν, ὅτε τ' ὤρετο δῖος Ἀχιλλεύς.  
ἀλλ' ἐγὼ οὐ πιθόμην· ἦ τ' ἂν πολὺν κέρδιον ἦεν·  
νῦν δ' ἐπεὶ ὤλεσα λαὸν ἀτασθαλίῃσιν ἐμῇσιν,  
αἰδέομαι Τρῶας καὶ Τρωάδας ἐλκεσιπέπλους,  
μή ποτέ τις εἴπησι κακώτερος ἄλλος ἐμείο  
“ἔκτωρ ἦφι βίηφι πιθήσας ὤλεσε λαόν.”

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## MATHEMATICS.

October, 1893.

## 1. LOWER STANDARD.—THREE HOURS.

1. Simplify
- $1.95$
- of
- $\frac{1}{3}$
- of
- $16.6 + \frac{1}{4}$
- of
- $.385$
- of
- $1.51 - .9375$
- of
- $\frac{2}{3}$
- of
- $2.4$
- .

Find the square root of—

$$(a) 9\frac{9}{16} + \frac{3}{15\frac{1}{2} + \frac{1}{2\frac{1}{2}}}.$$

- (b)
- $3.14159$
- to three places of decimals.

2. 12 cwt. of sugar which cost 15s. 5d. per cwt. are mixed with 16 cwt. which cost 16s. per cwt., and the mixture is sold at  $1\frac{3}{4}$ d. per lb. Express the profit or loss as a percentage of the cost.

3. Resolve into factors—

(i.)  $x^2 + 10cx + 24c^2$ .

(ii.)  $x^2 - 10cx - 24c^2$ .

(iii.)  $(x^2 + 3ax + 5a^2)^2 - (x^2 + 5ax + 3a^2)^2$ .

4. Simplify—

(i.)  $\frac{5x^3 + x^2 + x - 7}{x^4 + x^3 + x^2 + x - 4}$ .

(ii.)  $\frac{x-y}{2y-x} + \frac{x+y}{2y+x} - \frac{x^2+4y^2}{2(x^2-4y^2)}$ .

5. Solve the equations—

$$(i.) \frac{x - \frac{1}{10}}{x - \frac{1}{5}} + \frac{x - \frac{1}{5}}{x - \frac{3}{10}} = 2.$$

$$(ii.) (x+a)(x+b) = (x+c)(x+d) + e.$$

$$(iii.) \frac{x}{2} + \frac{2}{x} = 2\frac{4}{15}.$$

6. If the numerator of a certain fraction is increased by 2 the fraction becomes  $\frac{2}{5}$ , and if the denominator is increased by 14 the fraction becomes  $\frac{1}{3}$ . Find the fraction.

7. If a side of any triangle be produced, the exterior angle is equal to the two interior and opposite angles; and the three interior angles of every triangle are together equal to two right angles.

$ABC$  is an equilateral triangle, and  $AD$  is the perpendicular from  $A$  upon  $BC$ . Show that  $BD$  is half of  $AB$ , and that twice  $AD$  is greater than three times  $BD$ .

8. If the square described upon one of the sides of a triangle be equal to the squares described upon the other two sides of it, the angle contained by these two sides is a right angle.

Show also that an angle of a triangle is greater than or less than a right angle, according as the square on the side opposite the angle is greater than or less than the sum of the squares on the sides which contain the angle.

9. If a straight line is divided into any two parts, the squares on the whole line, and on one of the parts, are equal to twice the rectangle contained by the whole and that part, together with the square on the other part.

$AB$  is a straight line,  $O$  is its middle point, and  $C$  is any point in  $OB$ . Show that the square on  $AC$  is greater than the square on  $BC$  by twice the rectangle contained by  $AB$  and  $OC$ .

10. To draw a straight line from a given point, either without or in the circumference, which shall touch a given circle.

$AB$  is a diameter of a circle, and  $C$  is any point in  $AB$ . Find a chord of the circle which shall be equal and parallel to  $AC$ .

11. If from any point without a circle two straight lines be drawn, one of which cuts the circle, and the other touches it; the rectangle contained by the whole line which cuts the circle, and the part of it without the circle, shall be equal to the square on the line which touches it.

If two lines are drawn from the point to cut the circle, and if the parts of these lines within the circle are equal, then the parts without the circle are also equal.

## 2. HIGHER STANDARD.—THREE HOURS.

1. In every triangle the square on the side subtending an acute angle is less than the sum of the squares on the sides containing that angle by twice the rectangle contained by one of these sides, and the straight



line intercepted between the acute angle and the perpendicular let fall upon it from the opposite angle.

Show that three times the sum of the squares on the sides of a triangle is equal to four times the sum of the squares on the medians of the triangle.

2. The opposite angles of a quadrilateral figure inscribed in a circle are together equal to two right angles.

Show that the perpendiculars drawn from the angular points of a triangle upon the opposite sides meet in a point. Also show that the perpendiculars bisect the angles of the triangle formed by joining their feet.

3. To inscribe a circle in a given triangle.

Construct a triangle given the base, the vertical angle, and the length of the radius of the inscribed circle.

4. Similar triangles are to one another in the duplicate ratio of their homologous sides.

$ABC$  is a triangle, and  $D, E, F$  are the feet of the perpendiculars from  $A, B, C$  respectively upon the opposite sides. If the triangle  $BFD$  is equal to the triangle  $DEC$ , show that  $AB$  is equal to  $AC$ .

5. From a given point without a plane to draw a straight line perpendicular to the plane.

If a tetrahedron  $ABCD$  be such that  $AB$  is perpendicular to  $CD$  and  $AC$  perpendicular to  $BD$ , prove that  $AD$  is perpendicular to  $BC$ .

6. Resolve into factors—

(i.)  $x^3 - 49x + 120$ .

(ii.)  $8(c+2)^3 - (c+3)^3 - (c+1)^3$ .

7. Simplify—

(i.)  $\frac{(a+b)^7 - a^7 - b^7}{(a+b)^5 - a^5 - b^5}$ .

(ii.)  $\frac{(b+c-2a)^2}{(a-b)(a-c)} + \frac{(c+a-2b)^2}{(b-a)(b-c)} + \frac{(a+b-2c)^2}{(c-a)(c-b)}$ .

(iii.)  $\frac{\frac{x}{1 - \frac{x}{1 + x + \frac{x}{1 - x + x^2}}}}{1 + \frac{x}{1 - x - \frac{x}{1 + x + x^2}}}$ .

8. Solve the equations—

(i.)  $\frac{1}{x+1} + \frac{2}{x+3} + \frac{5}{x+5} = \frac{8}{x+4}$ .

(ii.)  $(x-a)(x-b) = (c-a)(c-b)$ .

(iii.)  $x^2 + 2xy + 3y^2 = 33, 4x^2 - xy + 5y^2 = 50$ .

9. Find the condition that the equation

$$ax^2 + bx + c = 0$$

shall have (i.) equal roots, (ii.) real roots.

Find the greatest and least values of the fraction

$$\frac{3x^2 + 2x + 5}{x^2 + 2x + 2}.$$

2 A

10. Prove the formulae—

$$(i.) (\sec A \operatorname{cosec} A - \tan A)(\sec A \operatorname{cosec} A - \cot A) = 1.$$

$$(ii.) \frac{\sin A + \sin B - \sin(A+B)}{\sin A + \sin B + \sin(A+B)} = \tan \frac{A}{2} \tan \frac{B}{2}.$$

11. Show how to solve a triangle given two sides and the angle opposite one of the given sides. Illustrate, with figures, the different cases that may occur.

Solve completely the triangle in which, with the usual notation,  $b = 1$ ,  $a = \sqrt{2}$ ,  $B = 30^\circ$ .

12. Given  $a$ ,  $b$  and  $C$  in a triangle, investigate formulae for finding  $c$ ,  $A$ ,  $B$ .

If  $a = 150$ ,  $b = 300$ ,  $C = 120^\circ$ , find the angles  $A$  and  $B$  to the nearest second, given  $\log 3 = \cdot 4771213$ ,  $L \tan 10^\circ 53' = 9 \cdot 2839070$ ,  $L \tan 10^\circ 54' = 9 \cdot 2845878$ .

## FRENCH.

*October, 1893.*

### FIRST PAPER.

1. Translate into French :—

I pushed back the crowds, and walked down a living avenue of people, until I came in front of the semicircle of Arabs, before whom stood the white man with the grey beard. As I advanced slowly towards him, I noticed he was pale, looked wearied, wore a bluish cap with a faded gold band round it, had on a red-sleeved waistcoat, and a pair of grey tweed trousers. I would have run to him, only I was a coward in the presence of such a mob,—would have embraced him, only, he being an Englishman, I did not know how he would receive me; so I did what cowardice and self-pride suggested was the best thing—walked deliberately to him, took off my hat and said: “Dr. Livingstone, I presume?”—“Yes,” said he with a kind smile, lifting his hat slightly. I replace my hat on my head, and he puts on his cap, and we both grasp hands, and then I said aloud: “I thank God, Doctor, I have been permitted to see you.” He answered: “I feel thankful that I am here to welcome you.”

2. Translate into idiomatic French :—

- (a) I can no longer resist it.
- (b) It is of no use for you to talk.
- (c) Do not laugh at what you have just heard.
- (d) I am very grieved at it.
- (e) In the end the mayor was convinced.
- (f) Do you know what is the matter on hand?

### SECOND PAPER.

*No paper will pass which contains gross grammatical blunders.*

#### PART I.

1. Translate into English :—

(a) Colomb, insouciant de la colère de ses matelots, écrivit sur parchemin plusieurs courtes relations de sa découverte, enferma les

unes dans un rouleau de cire, les autres dans des caisses de cèdre, et jeta ses témoignages à la mer, pour que le hasard les fit flotter un jour, après lui, jusqu'au rivage. On dit qu'une de ces bonées, abandonnées aux vents et aux flots, fut ballottée pendant trois siècles et demi sur la surface, dans le lit ou sur les grèves de la mer, et que le matelot d'un navire européen, en embarquant du lest pour son vaisseau, il y a quelque temps, ramassa une noix de coco pétrifiée, et l'apporta à son capitaine comme une vaine curiosité de la nature. Le capitaine, en ouvrant la noix pour s'assurer si l'amaude aurait résisté au temps, trouva, renfermé dans l'écorce creuse, un parchemin sur lequel étaient écrits en lettres gothiques ces mots : ' Nous ne pouvons résister un jour de plus à la tempête ; nous sommes entre l'Espagne et les îles découvertes d'Orient. Si la caravelle sombre, puisse quelqu'un recueillir ce témoignage !—Christophe Colomb.'

- (b) Le devoir fait, légers comme de jeunes daims,  
 Nous fuyons à travers les immenses jardins,  
 Eclatant à la fois en cent propos contraires.  
 Moi, d'un pas inégal je suivais mes grands frères ;  
 Et les astres sereins s'allumaient dans les cieux,  
 Et les mouches volaient dans l'air silencieux ;  
 Et le doux rossignol, chantant dans l'ombre obscure,  
 Enseignait la musique à toute la nature,  
 Tandis qu'enfant jaseur, aux gestes étourdis,  
 Jetant partout mes yeux ingénus et hardis  
 D'où jaillissait la vie en vives étincelles,  
 Je portais sous mon bras, noués en trois ficelles,  
 Horace et les festins, Virgile et les forêts,  
 Tout l'Olympe, Thésée, Hercule, et toi, Cérés !  
 La cruelle Junon, Lerne et l'hydre enflammée  
 Et le vaste lion de la roche Némée.  
 Mais lorsque j'arrivais chez ma mère, souvent,  
 Grâce au hasard taquin qui joue avec l'enfant,  
 J'avais de grands cliagrins et de grandes colères.  
 Je ne retrouvais plus, près des ifs séculaires,  
 Le beau petit jardin par moi-même arrangé :  
 Un gros chien, en passant, avait tout ravagé ;  
 Ou quelqu'un dans ma chambre avait ouvert mes cages,  
 Et, joyaux, s'en étaient allés de fleur en fleur  
 Chercher la liberté bien loin,—ou l'oiseleur.

## PART II.

2. Write down the feminine of—*labial*, *contigu*, *tiers*, *malin*, *mineur*, *créateur*, *pêcheur*, and *nouveau-marié*.

3. What is the general rule for the position of the adjective in French? Distinguish between *cher*, *honnête*, and *pauvre* when preceding and when following the noun.

4. Write down the 1st person plural of the preterite definite and future and the past participle of *nettoyer*, *préférer*, *s'en aller*, *tenir*, *mouvoir*, *taire*, and *nuire*.

5. Give the rule for the use of the subjunctive or indicative with verbs of *declaring, believing, etc.*, and translate—It is true that I am going to accompany him, and—Do you think that he is guilty of it?

6. Distinguish between :—

(a) Elles étaient alors *le* plus contentes and elles étaient alors *les* plus contentes.

(b) Une nouvelle voiture and une voiture nouvelle.

(c) Manquer quelque chose and manquer *de* quelque chose.

(d) Il vient *de* lire and il vient *à* lire.

(e) Il est en prison and il est dans le prison.

7. Translate freely into English :—

(a) Cela ne se fait pas deux fois.

(b) Je m'en prendrai à vous.

(c) Prendre le dessus.

(d) Il faudra en passer par là.

(e) Il y a longtemps qu'il n'existe plus.

(f) J'en fais peu de cas.

(g) En un tour de main.

(h) A qui en voulez-vous?

### PART III.

*Not more than ONE question in this part to be attempted.*

8. Explain how the romances of King Arthur and his knights found their way into France. Enumerate some of these and comment on their matter and form.

9. Mention some of the principal writers of the age of Louis XIV., and state in which department of literature each distinguished himself.

10. Trace the influx of new words into French in the sixteenth century and their influence, temporary or permanent, on the language.

11. Derive the following and comment on any peculiarity in their formation—*je, on, jour, bémol, dont, chêne.*

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### GERMAN.

*October, 1893.*

### FIRST PAPER.

1. Translate into German :—

When Quintin had attained his fourteenth year, a change took place in his fortunes. The young blacksmith, with the native taste which was inherent in him, had worked a number of iron rails with such ingenious ornaments, that the purchaser, a rich burgher of Antwerp, sent to inquire whose hand had done them. Quintin's master informed him; and the answer was that the young workman should immediately go to the burgher, who had found him employment in the city.

A grand event was this in the boy's life. He had never seen Antwerp, but he and his sister had often sat together on summer evenings watching the beautiful spires of the cathedral, while the little girl told him of all the wonders it contained; for Lisa inherited all her

father's love of art. Now Quintin was about to realize all these wonderful sights; and when he got home he could hardly find words to tell his mother and Lisa the joyful news.

2. Translate into idiomatic German :—

- (a) He is very ill-tempered.
- (b) Do your best.
- (c) He is in a pretty plight.
- (d) Have you finished reading this novel?
- (e) A burnt child dreads the fire.
- (f) This building is in course of construction.
- (g) A defensive and offensive alliance.

## SECOND PAPER.

*No paper will pass which contains gross grammatical blunders.*

1. Give the English, gender and nominative plural of—Fels, Verlust, Begräbnis, Spion, Fell, Haken, and both plurals with English of—der Bogen, der Ort, die Sau.

2. What is the import of the adjective terminations -bar, -icht, and -sam? Give two instances in each case.

3. Explain the grammatical peculiarities in—

*Das sind meine Schwestern,  
Er musste ins Rathaus,  
Ich bin es zufrieden ;*

and correct, giving your reason in each case—

*Ich wurde geraten.  
Die Freunde wovon du sprichst.  
Vielleicht bestraft mein Lehrer mich.*

4. Give the 2nd person singular imperative, and the perfect participle of—nehmen, schallen, heissen, stattfinden, vorausbezahlen and stillschweigen.

5. What is the German for—to feed on, to amount to, to exchange for, angry at, celebrated for, envious of, by mistake, in turns, from experience, from under the table, by six o'clock, between ourselves?

6. Translate freely into English :—

- (a) Unverrichteter Sache.
- (b) Das Versäumte nachholen.
- (c) Was soll das heissen?
- (d) Zum besten haben.
- (e) Ehrlich währt am längsten.
- (f) Durch die Finger sehen.

7. Translate into English :—

(a) Keine Entdeckung, welche man der Wissenschaft verdankte, hatte seit Menschengedenken das Publikum so aufgeregt, als die Erfindung des Luftballons. Im Jahre 1782 hatte Cavallo die ersten Papierballons steigen lassen, im Jahre 1783 erhoben sich die ersten Montgolfieren und Chartieren in die Luft. Schon im Januar 1785 flog der kecke Franzose Blanchard über den Kanal, zwei Jahre darauf

erfand derselbe den Fallschirm, durch welchen der Mensch, wie man annahm, aus der grössten Höhe gefahrlos auf die Erde herabgleiten konnte. Die kühnsten Träume der Phantasie waren plötzlich durch die Wirklichkeit übertroffen. Auf der deutschen Erde kroch die Schneckenpost im Tage etwa vier bis fünf Meilen durch die Schlagbäume und Grenzzeichen zahlloser Souveränitäten, jetzt flog der Wagende in geflochtener Gondel höher als der Adler über Wolken, Meer und Berge. Man erwartete von der neuen Erfindung die grösste Ausbeute für die Wissenschaft, die stärkste Revolution in dem Verkehrsleben der Erde. Das Poetische der Idee, das Erstaunliche des Anblicks, der edle Triumph wissenschaftlicher Entdeckung hoben die Seelen nicht nur der Gebildeten; das ganze Volk nahm fast leidenschaftlichen Anteil an dem neuen Funde des Menschengeschlechts.

- (b) Ich weiss es, der Mensch soll  
 Immer streben zum Bessern, und wie wir sehen, er strebt auch  
 Immer dem Höheren nach, zum wenigsten sucht er das Neue.  
 Aber geht nicht zu weit! Denn neben diesen Gefühlen  
 Gab die Natur uns auch die Lust, zu verharren im Alten,  
 Und sich dessen zu freu'n, was jeder lange gewohnt ist.  
 Aller Zustand ist gut, der natürlich ist und vernünftig.  
 Vieles wünscht sich der Mensch, und doch bedarf er nur wenig;  
 Denn die Tage sind kurz, und beschränkt der Sterblichen Schicksal.  
 Niemals tadl' ich den Mann, der, immer thätig und rastlos  
 Umgetrieben, das Meer und alle Strassen der Erde  
 Kühn und emsig befährt und sich des Gewinnes erfreuet,  
 Welcher sich reichlich um ihn und um die Seinen herum häuft;  
 Aber jener ist auch mir wert, der ruhige Bürger,  
 Der sein väterlich Erbe mit stillen Schritten umgeht  
 Und die Erde besorgt, so wie es die Stunden gebieten.  
 Nicht verändert sich ihm in jedem Jahre der Boden,  
 Nicht streckt eilig der Baum, der neugepflanzte, die Arme  
 Gegen den Himmel aus, mit reichlichen Blüten gezieret.  
 Nein, der Mann bedarf der Geduld; er bedarf auch des reinen,  
 Immer gleichen, ruhigen Sinns und des graden Verstandes.

(Only one of the following questions to be attempted.)

8. What is understood by 'Volks poesie' and by what was it fostered? Mention some of its chief products.
9. Mention the authors of any two of the following, giving a short description of each work:—'Reinecke Fuchs,' 'Nathan der Weise,' 'Die Harzreise,' 'Kosmos,' 'Wallenstein' and 'Undine.'
10. Into what three main divisions does the German language fall, and what historical epochs marked the period of their greatest prosperity?
11. Derive and connect with the English cognate:—Pferd, König, Messe, Bruder, Walnuss, wissen; and explain the italicized portion of the following—*Antwort, vorhanden, grossartig, oberhalb, Gänserich, glücklich.*



## DYNAMICS.

October, 1893—THREE HOURS.

1. Define *resultant of two velocities*, and show how to resolve a velocity into two components in given directions.

$ABCD$  is a square of which  $AC$  and  $BD$  are the diagonals. If  $AC$  represents a velocity and  $BD$  represents one of its components, find a line which represents the other component.

2. Explain clearly what is meant by the statement that the value of " $g$ " at the latitude of Glasgow is 32.2 foot-second units. How does the value vary for different latitudes?

What is the value of  $g$  in centimetre-second units at a place where a bullet falls 1102 centimetres in  $1\frac{1}{2}$  seconds?

3. State and explain the Second Law of Motion.

A balloon is moving horizontally at the rate of 10 feet per second at a height of 100 feet above the ground. If a stone is let fall from the balloon, with what speed will it be moving when it strikes the ground?

How will the stone appear to a spectator in the balloon to move during its fall?

[Take  $g = 32$  foot-second units.]

4. Distinguish between *mass* and *weight*, *momentum* and *kinetic energy*, *poundal* and *foot-pound*.

A mass of 10 lbs., initially at rest, is acted on for 3 seconds by a force in a constant direction equal to the weight of 4 lbs. What is its momentum, and what its kinetic energy, at the end of that time?

In what units are your answers expressed?

5. State the proposition known as the *parallelogram of forces*, and show how it may be verified experimentally.

$ABC$  is an equilateral triangle, and  $AD$  is the perpendicular from  $A$  to  $BC$ . Forces of 3, 4, 4 units act from  $A$  to  $B$ , from  $A$  to  $C$ , and from  $D$  to  $A$  respectively. Find the magnitude and direction of their resultant.

6. Show that if three forces acting on a rigid body in one plane are in equilibrium, their lines of action must either be parallel or must meet in a point.

$AB$  is a uniform rod which weighs 20 lbs. It is hinged freely at the end  $A$  to a fixed point, and is supported by a string attached to the end  $B$  and fastened to a fixed point  $C$  which is vertically above  $A$ . If  $ABC$  is an equilateral triangle, find the tension of the string and the pressure on the hinge.

7. Distinguish, with examples, between *stable*, *unstable*, and *neutral* equilibrium.

A sphere whose centre of gravity is not at its centre, and whose weight is equal to the weight of its own volume of water, is wholly immersed in water, and then left free to move. Show what will be the relative positions of its centre and of its centre of gravity when it has come to rest.

8. A body is supported on a smooth inclined plane by a horizontal

force. Show how to find the pressure on the plane when the weight of the body and the height and length of the plane are known.

A body which weighs 20 lbs. can be supported on a smooth inclined plane by a force parallel to the plane and equal to the weight of 10 lbs. If the body were supported on the plane, by a horizontal force, what pressure would it exert on the plane?

9. Show that the difference of the pressures at two points of a liquid of uniform density is proportional to the difference of level of the two points.

Why is this proposition not true in the case of the atmosphere?

A diving-bell is sunk in a lake of fresh water until the volume of the air in the bell is reduced to  $\frac{3}{4}$  of the volume at atmospheric pressure. What is the depth below the surface of the lake of the surface of water in the bell, the water barometer standing at 33 feet?

10. A solid floats partly immersed in a liquid. Given the specific gravities of the solid and the liquid, find what part of the volume of the solid is above the surface of the liquid.

An iceberg floats in sea-water, and it is estimated that there are a million tons of ice above the surface. What, on this estimate, is the whole mass of the iceberg?

[The specific gravities of ice and sea-water are .92 and 1.02 respectively.]

11. Describe the construction and action of the common pump.

If a gallon of water is discharged at each stroke, and the height of the spout is 20 feet above the surface of the water in the well, what is the work done in each stroke? At what horse-power is the pump being worked if 20 strokes are made in a minute?

[A gallon of water weighs 10 lbs.]

## II.—FOR THE DEGREE OF M.A.

### I.—FOR ORDINARY DEGREE.

#### A.—DEPARTMENT OF LANGUAGE AND LITERATURE.

#### LATIN TRANSLATION—TWO HOURS.

1. Translate the following passages:—

(a) *Virg. Aen.* IX. 556—568.

(b) *Propert.* IV. 6, 41—52.

(c) *Hor. Epp.* I. 20, 4—18.

(d) *Tac. Ann.* IV. 70.

2. Translate, and explain the allusions in—

(a) *Conscientia belli Sacrovir diu dissimulatus, victoria per avaritiam foedata et uxor Sosia arguebantur.*—*Tac.*

(b) *Saxa triumphales fregere Capharea puppes,*

*Naufraga cum vasto Graecia tracta salo est.*—*Prop.*

3. Translate, with comment on construction :—

(a) Vos, O Calliope, precor.—Virg.

(b) Nec te tua funera mater Produxi.—Virg.

(c) Opprobria fingere saevus.—Hor.

(d) Haec ego procurare et idoneus imperor et non Invitus.—Hor.

## LATIN PROSE—TWO HOURS.

The only reward which Timoleon received for his great services to the State was a house at Syracuse. But he was not the man to complain of this treatment. When asked by a friend if he did not think his fellow-citizens ungrateful, he replied that if he had been consulting his own interests, and not those of his country, he might have felt inclined to complain, but that since he had desired only the welfare of his own country, he was perfectly content. During the latter part of his life, though he was totally deprived of sight, yet when important affairs were consulted on in the assembly, it was customary to send for Timoleon, who was drawn in a car into the middle of the theatre, amid the shouts and affectionate greetings of the assembled citizens. The opinion which he pronounced was usually ratified by the vote of the assembly; and he then left the theatre, while the people renewed the cheers which had greeted his arrival. His latter days were thus a striking contradiction of the saying that 'old age is the haven of all ills.' Far from being gloomy, they were rather the brightest period of his whole life.

## GENERAL PAPER—TWO HOURS.

### A. UNPREPARED TRANSLATION.

De his rebus qui quererentur, legatos Romam miserunt. Introducti in senatum a C. Valerio praetore exposuerunt se, superante in Gallia multitudine, inopia coactos agri et egestate ad quaerendam sedem Alpes transgressos. Quae inculta per solitudines viderent, ibi sine ullius iniuria consedissee; oppidum quoque aedificare coepisse, quod indicium esset, nec agro nec urbi vim allaturos venisse. Nuper M. Claudium ad se nuntium misisse, bellum se cum iis, ni dederentur gesturum. Se certam etsi non speciosam pacem quam incerta belli praeoptantes dedidisse se prius in fidem quam in potestatem populi Romani. Post paucos dies iussos et urbe et agro decedere sese tacitos abire, quo terrarum possent, in animo habuisse; arma deinde sibi et postremo omnia alia, quae ferrent agerentque, adempta. Orare se senatum populumque Romanum, ne in se innoxios deditos acerbius quam in hostes saevirent.

### B. GRAMMAR.

1. With what cases are the following verbs constructed, and what is their meaning?—*consulo, doceo, interest, minor, potior.*

2. Distinguish the meanings of—*si hoc dixit erravit, si hoc diceret erraret, si hoc dixisset errarisset*; *persuadeo* with Acc. and Inf., with *ut* and Subj.

3. How are prohibitions expressed in Latin? Give examples.

## C. ANTIQUITIES.

1. What is the meaning of—*lex agraria, lex judiciaria, lex annalis*? Give an example of each kind.
2. How were the taxes collected from the subject provinces?
3. What were the powers of the tribune of the plebs? Give two instances of a tribune's action in the last century of the Republic.

## D. HISTORY.

1. State *briefly* the chief incidents in the Social War.
2. Narrate the incidents of Cicero's prosecution of Verres. What was the political importance of the trial?
3. The causes of Pompey's failure.

## GREEK TRANSLATION—TWO HOURS.

1. Translate *one* passage from each of the following sections :

A. (a) Hom. *Od.* IX. 485—492.

(b) Hom. *Od.* IV. 601—608.

B. (a) Aesch. *Pers.* 804—811.

(b) Soph. *Ant.* 1165—72.

C. (a) Plato, *Rep.* II. 365B.

(b) Arist. *Port.* 22.

2. Translate :—

Dem. *Lept.* 33, 467.

In the above passage explain the construction of *τοσούτου δεῖ ἀποστερῆσαι* and *πόλλ' ἂν ἔχων εἰπεῖν*.

3. Translate the following unseen passage :—

“Ὅτε ἐάλω τὸ Ἴλιον οἰκτεῖραντες οἱ Ἀχαιοὶ τὰς τῶν ἀλικομένων τύχας πάνν Ἑλληνικῶς τοῦτο ἐκήρυξαν, ἕκαστον τῶν ἐλευθέρων ἐν ὅ,τι καὶ βούλεται τῶν οἰκείων ἀποφέρειν ἀράμενον. ὁ οὖν Αἰνείας τοὺς πατρώους θεοὺς βαστάσας ἔφερεν, ὑπεριδὼν τῶν ἄλλων. ἡσθέντες οὖν ἐπὶ τῇ τοῦ ἀνδρὸς εὐσεβείᾳ οἱ Ἕλληνες καὶ δεύτερον αὐτῷ κτῆμα συνεχώρησαν λαβεῖν· ὁ δὲ τὸν πατέρα πάνν σφόδρα γεγρηκῶτα ἀναθέμενος τοῖς ὤμοις ἔφερεν. ὑπερεκπλαγέντες οὖν καὶ ἐπὶ τούτῳ οὐχ ἥκιστα, πάντων αὐτῷ τῶν οἰκείων κτημάτων ἀπέστησαν, ὁμολογούντες ὅτι πρὸς τοὺς εὐσεβεῖς τῶν ἀνθρώπων καὶ τοὺς θεοὺς καὶ τοὺς γειναμένους δι' αἰδοῦς ἄγοντας καὶ οἱ φύσει πολέμοιο ἡμεροὶ γίνονται.

## GENERAL PAPER—TWO HOURS.

1. Turn into Greek :—

Pyrrhus defeated the Romans, but so many of his soldiers fell in the battle that he confessed that another such victory would be worse than a defeat. He became anxious therefore to conclude a peace, and offered very favourable terms to the Romans, hoping that their defeat would make them willing to accept them. He demanded only that his Italian allies should be left free, and consented himself to return across the sea. The king's proposals were brought to Rome by Cineas,

whose eloquence, it was said, had gained his master more advantages than his own sword. The senators, however, repeated the terms of peace, refusing to treat with an enemy who was still in arms.

2. Distinguish the meaning of—*πείθω* and *πείθομαι*: *λέγοιμι* and *λέγοιμι ἄν*: *ἐλεγον ἄν* and *εἶπον ἄν*: *ἔφνυσα*, *ἔφυν*, *πέφνυκα*.

3. With what cases are the following verbs constructed, and what is their meaning?—*κατηγορῶ*, *φθονῶ*, *μετέχω*, *χρῶμαι*, *ἐπιθυμῶ*.

4. Give the Greek for

(a) Contrary to the law; in accordance with the law.

(b) We destroyed their house.

(c) They destroyed their own house.

5. Discuss concisely one of the following questions in History:—

#### I. *Early Period of History.*

(a) The Dorian Migration.

(b) The colonization of Sicily.

(c) The constitution of Cleisthenes.

#### II. *Period from 478 to 404 B.C.*

(a) The Policy of Pericles.

(b) The causes of the outbreak of the Peloponnesian War.

(c) The events of the war after the defeat of the Sicilian expedition.

6. Discuss concisely one of the following questions in literature:—

(a) The differences of the *Iliad* and the *Odyssey*.

(b) The religious aspect of Attic Tragedy.

(c) The rise of prose writing.

(d) The plot of any "lost" play or epic poem

## ENGLISH—THREE HOURS.

### I. FOR STUDENTS OF SESSION 1892-93.

*Answer NINE questions, taking ONE from A, FOUR from B, TWO from C, and ONE from D. The remaining question may be taken from any section of the Paper. Questions 7 and 18 must be attempted.*

#### A. COMPOSITION AND PHILOLOGY.

1. 'The plainest language is always the best.' Discuss this.

2. Comment on one of the following statements: (a) 'Style is one thing, and manner quite another'; (b) 'In poetry words and phrases are allowed, which in ordinary prose would be condemned as barbarisms.'

3. What are the chief advantages and dangers of the use (a) of simile and metaphor, (b) of antithesis and epigram?

4. Explain fully what is meant by saying that *thou* is 'cognate' with *tu*, whereas *tact* is 'derived' from *tactus*.

5. Mention one or two of the chief peculiarities of the Teutonic group of languages. In what sense can English be called a Teutonic language?

6. Describe briefly the effect (a) of the Danish invasions, and (b) of the Norman Conquest, on the English language.





## D. GREEN'S SELECTIONS FROM ADDISON.

19. When were Addison's essays written? What is their significance in the history of English Literature?

20. What can be gathered from these essays of Addison's opinions on (a) the political attitude of the country gentry, (b) the importance of trade, (c) party spirit?

21. Describe one of the following: (a) the Vision of Mirza, (b) Sir Roger at Church, (c) the dissection of the Beau's head.

## II. FOR STUDENTS OF SESSION 1893-94.

Answer NINE questions, taking ONE from A, ONE from B, FOUR from C, TWO from D, and ONE from E. Question 18 must be attempted.

Students who attended the English Literature Class before Session 1893-94 may substitute for the question from B an additional question from any one of the other sections.

## A. COMPOSITION.

1. 'The plainest language is always the best.' Discuss this.

2. Comment on one of the following statements:—(a) 'Style is one thing, and manner quite another'; (b) 'In poetry words and phrases are allowed, which in ordinary prose would be condemned as barbarisms.'

3. What are the chief advantages and dangers of the use (a) of simile and metaphor, (b) of antithesis and epigram?

## B. PHILOLOGY.

4. Explain fully what is meant by saying that *thou* is 'cognate' with *tu*, whereas *tact* is 'derived' from *tactus*.

5. Mention one or two of the chief peculiarities of the Teutonic group of languages. In what sense can English be called a Teutonic language?

6. Describe briefly the effect (a) of the Danish invasions, and (b) of the Norman Conquest, on the English language.

## C. ELIZABETHAN DRAMA.

7. What characteristics of the Elizabethan Age seem to you most strikingly illustrated by the dramas you have read?

8. Show, by reference to *Dr. Faustus*, the contributions made by Marlowe to the development of the drama.

9. Give the approximate dates of the *Two Gentlemen of Verona*, *As You Like It*, *King Lear*, and *Cymbeline*, and briefly characterize, by reference to these dramas, the successive stages of Shakespeare's career.

10. Sketch the plot of *Edward II.*, or *Much Ado About Nothing*, or *A New Way to Pay Old Debts*.

11. Describe fully the character of Hamlet or of Iago.

12. Discuss two of the following statements:—(a) Henry V. is Shakespeare's ideal hero; (b) Benedick and Rosalind would not have suited one another; (c) Macbeth was a coward.

13. 'Jonson's characters are types, not individuals.' Discuss this, with reference to *The Alchemist* and *Epicoene*.

14. Write a critical account of *Philaster* or of the *Duchess of Malfi*.

15. Describe two of the following characters:—Fluellen, Jaques, Viola, The Fool in *King Lear*, Overreach.

## D. CHAUCER'S KNIGHT'S TALE.

16. In what respects is the *Knight's Tale* characteristically mediæval? Is it throughout characteristic of Chaucer's Knight?

17. Describe, by reference to the story, the characters of Theseus and Arcite.

18. Translate into modern English, and comment upon, the following lines :—

- (a) And so bifel, that in the tas thei founde,  
Thurgh-girt with many a grevous bloody wounde.  
Two yonge knightes ligging by and by,  
Bothe in oon armes, wroght ful richely.
- (b) It is ful fair a man to bere him evene,  
For al-day meteth men at unset stevene.
- (c) The tiraunt, with the prey by force y-raft;  
The toun destroyed, ther was no-thing laft.  
Yet sawgh I brent the shippes hoppesteres;  
The hunte strangled with the wilde beres.
- (d) And he that is at meschief shal be take,  
And noght slayn, but be brought un-to the stake.

Also, scan the following lines :—

- (a) With nercotikes and opie of Thebes fyn.
- (b) That for to honten is so desirous.
- (c) Westward right swich another in the opposit.
- (d) To fighte for a lady, *benedicite*!
- (e) With mighty maces the bones they to-breste.
- (f) Eek on his heed a coroune of laurer grene.

## E. TENNYSON'S IDYLLS OF THE KING.

19. 'this old imperfect tale,

New-old, and shadowing Sense at war with Soul.'

Comment on this description of the *Idylls of the King*.

20. Tell briefly the story of one of the following Idylls, and show its bearing on the main design :—*Gareth and Lynette, The Holy Grail, The Last Tournament*.

21. Discuss the merits and defects of the Idyll of *Guinevere*.

## FRENCH.

*More credit will be given to a few answers carefully written than to many superficially answered.*

1. Translate into English :—

Chateaubriand mérite de grands éloges : lui qui sentait délicieusement Virgile, il eut le courage de revenir à Homère et de gravir comme il put les pentes de l'Ida. Je dis *gravir*, car ses études avaient été de ce côté fort incomplètes, et ce fut à force de veilles que, dans sa première vie de Paris ou dans son exil d'Angleterre, il dut les réparer. Il s'y appliqua de nouveau et de plus près en composant ses *Martyrs* et en vue de son *Itinéraire*. Bien vieux, et dans le salon de Madame

Récamier, je me souviens qu'une allusion à je ne sais quel passage de l'Iliade s'étant faite devant lui dans la conversation, il se mit à murmurer tout bas, en grec, le vers d'Homère qui s'y rapportait. Il n'en savait plus que ces lambeaux ; mais il en avait respiré et il en conservait en idée l'antique esprit. En littérature, du moins, il n'a rien sacrifié ; il sut renouveler sans abattre ni détruire : il maintint les hauteurs respectives, la distance et la proportion des collines vénérables, et les temples à chaque sommet.

2. Give some account (*a*) of Pascal and his works, (*b*) of Bossuet and his works. Compare or contrast any of their views of the Church.

3. Give some account of the influence upon literature exercised by the ladies under Louis XIV., with particular reference to Mme. de Sévigné.

4. Translate into French :—

The literary merits of Charlemagne are attested by the foundation of schools, the introduction of arts, the works which were published in his name, and his familiar connexion with the subjects and strangers whom he invited to his court to educate both the prince and the people. His own studies were tardy, laborious, and imperfect ; if he spoke Latin and understood Greek, he derived the rudiments of knowledge from conversation rather than from books ; and in his mature age the emperor strove to acquire the practice of writing, which every peasant now learns in his infancy. The grammar and logic, the music and astronomy, of the times, were only cultivated as the handmaids of superstition ; but the curiosity of the human mind must ultimately tend to its improvement, and the encouragement of learning reflects the purest and most pleasing lustre on the character of Charlemagne. The dignity of his person, the length of his reign, the prosperity of his arms, the vigour of his government, and the reverence of distant nations, distinguish him from the royal crowd ; and Europe dates a new era from his restoration of the western empire. GIBBON.

5. Give as full an account as you can of any one of the works of Boileau. What was the subject and what the origin of *Le Lutrin* ?

6. Who were the authors of the following works—Eugénie Grandet, Roman d'un jeune homme pauvre, Mérope, Polyencte, La Mare au diable, Pierre et Camille ? Give some account of any one of these works.

7. Write, in French, a brief account of the sources of the French language.

8. Write a note on the etymology and history of the following words—*oni, trop, beaucoup, goutte, pas, point, rien, chez, selon*.

9. Write a note on the French prepositions, pointing out the sources whence the French language either receives them or forms them.

10. Translate into English, adding any marginal notes which may seem necessary, the following passage from the 'Chanson de Roland.'

*Charlemagne arrives at the scene of the disaster at Roncesvalles, and laments over the death of Roland and the rest of the twelve peers.*

Morz est Rollanz, Dens en ad l'anme es ciels.  
Li emperere en Rencesvals parvient.

Il nen i ad ne veie ne sentier,  
 Ne voide terre ne alne ne plein pied  
 Que il n'i ait o Franceis o paien.  
 Carles escriet : ' U estes vus, bels nies ?  
 U est l'arcevesques e li cuens Oliviers ?  
 U est Gerins e sis cumpainz Geriers ?  
 U est ducs Otes e li quens Berengiers,  
 Ive e Ivories, que jo aveie tant chiers ?  
 Qu'est devenuz li Guascuinz Engeliens,  
 Sanses li ducs e Anseis li fiers ?  
 U est Gerarz de Russillun li vieilz,  
 Li .XII. qu' aveie ci laissiet ?  
 De ço cui chielz,<sup>1</sup> quant nuls n'en respundiet ?  
 ' Deus,' dist li reis, ' tant me pois esmaier  
 Que jo ne fui *al estur cumencier* !'<sup>2</sup>  
 Tiret sa barbe cum hum qui est iriez.  
 Plurent des oilz si barun chevalier,  
 Encuntre terre se pasment .xx. millier,  
 Naimes li ducs en ad mult grant pitiet.

## LOGIC AND METAPHYSICS—THREE HOURS.

*Candidates are required to give answers to TEN questions, FIVE of which must be selected from Section A and FIVE from Section B.*

### A.

1. Distinguish Relative and Absolute Certainty. Illustrate and specify the ground of each.
2. Explain and compare Intuition and Representation.
3. "Consciousness is a feeling." "There is a feeling of self." Examine those statements and add remarks.
4. "*Esse is percipi*." Criticise this statement.
5. What is meant by the law of Totality in Memory and the Association of Ideas ?
6. The ultimate test or tests of a First Principle of Knowledge. Is a presuppositionless philosophy possible ?
7. What precisely was the aim and method of Descartes ? Add remarks.
8. Examine Mr. Mill's phrase, "the permanent possibility of Sensation." Point out what it is adduced to explain. Add remarks.

### B.

1. Explain the distinction between contrary and contradictory opposition (*a*) in terms, (*b*) in propositions, giving concrete examples of each. Can contradictory concepts be reconciled in any conceivable form of thought ?
2. What form and what rules are prescribed for logical definition ? Define in this sense : church, text-book, missionary, constituency.

<sup>1</sup> 'To whom does it matter ?'

<sup>2</sup> 'At the commencement of the fight (stir).'

3. State in logical form, and examine the validity of the following arguments, mentioning in cases of fallacy the rule of syllogism that is violated:—(a) As every book is a human production, and all books are liable to error, all human productions are liable to error. (b) He must be a Catholic, for only Catholics hold these opinions.

4. Do the same with regard to the following:—(a) All that is attested by the evidence of the senses to be true is to be believed. The real presence is not so attested, and is therefore not to be believed. (b) If Warren Hastings was guilty of the crimes alleged against him he deserved to die. But he was not guilty of them, and did not therefore deserve to die.

5. Give a concrete example of (1) a reasoning by analogy, (2) a true inductive reasoning. Which is more convincing, and say why?

6. Distinguish the following fallacies: *fallacy of composition, ignoratio elenchi, petitio principii, fallacy of questions, post hoc ergo propter hoc*. Give a concrete example of the last, and show what more is required to make the argument valid.

7. Write out in letters and reduce the following moods: Cesare, Darapti, Baroko.

8. State the objections made to AfA, AnI, InI. Examine them.

## MORAL PHILOSOPHY—THREE HOURS.

A. FOR STUDENTS OF SESSIONS 1893-94, 1889-90, AND 1885-86.

*Candidates are required to answer NINE questions.*

1. What is meant by development? Point out the main difficulties in applying it to the social life of man.

2. Point out in what respects Socrates agreed with the Sophists, and in what respects he differed from them.

3. Explain Socrates' conception of virtue. How was it modified by Plato?

4. Give Aristotle's definition of Happiness, and show what are the various questions that arise out of it in the Ethics.

5. Explain what use Aristotle makes of popular opinion in the Ethics, and illustrate your answer.

6. Give Aristotle's view of the relation of Happiness to Pleasure. Does he adopt the paradox of Hedonism?

7. "The solitary must be either a God or a beast." On what grounds does Aristotle maintain this doctrine?

8. "The moral end is self-realisation." "Morality consists in self-sacrifice." Discuss the relation of these two views.

9. Compare and contrast the lists of the virtues given by Plato and by Aristotle.

10. What is the attitude of Aristotle toward the Platonic Socialism?

11. What does Aristotle mean by proper wit (*εὐτραπεία*)? Discuss his views as to its moral nature.

12. Discuss the Aristotelian view of Justice, and compare it with the principles embodied in Roman Law.

B. FOR STUDENTS OF SESSIONS 1892-93, 1890-91, 1888-89, OR ANY  
SESSION BEFORE 1885-6.

*Candidates are required to answer NINE questions.*

1. Discuss Mr. Spencer's view of the origin of the principles of morals.
2. Discuss the relation of the philosophy of Hume to that of Locke.
3. What is the idea of Organic Unity? Can it be applied as directly to the State as to the individual organism?
4. What are the main psychological explanations of the Paradox of Hedonism?
5. "Man is always determined by motives, and therefore he cannot be free." Criticise this argument.
6. Give and criticise Comte's law of the three stages of intellectual development.
7. In what different senses may the Argument from Design be understood, and what is its logical value?
8. "Virtue is habit." "Virtue is character." "Virtue is principle." Examine these three statements, and show their relations to each other.
9. Examine Kant's different ways of stating the principle of morals. Is there any essential difference between them?
10. What is Socialism, and what different forms does it take?
11. "The two great forces in modern life are Hebraism and Hellenism." Explain and examine this statement.
12. Can morality exist without religion? What is the relation between them?

C. FOR STUDENTS OF SESSIONS 1891-92 AND 1887-88.

*Candidates are required to answer NINE questions.*

1. What are the main moral ideas found in the Greek tragedians?
2. Explain Plato's theory of Reminiscence. What importance has it in relation to the ethical education of man?
3. Give and criticise Rousseau's view of the Social Contract.
4. Discuss Plato's views as to the use of mythology in the moral and intellectual education of man.
5. How does Aristotle criticise the Platonic view of the State?
6. Discuss the value of Pascal's criticism of the Jesuit Casuistry.
7. Give Plato's definition of Justice. How is it connected with his view of the State?
8. "The State is the individual written large." Explain this statement. Is this all that Plato has to say as to the relation of the individual to the State?
9. What political ideas of Plato have been practically realised in later times?
10. What is Plato's view of the relation of his ideas to each other?
11. What are the main views as to the ground and nature of penal Justice?
12. What are Plato's views as to the decline and fall of the ideal State?



## C.—DEPARTMENT OF SCIENCE.

## MATHEMATICS.

## FIRST PAPER—THREE HOURS.

1. Show how to construct on a given straight line as one side a parallelogram which shall be equal to a given triangle and have one of its angles equal to a given angle.

2. In any acute-angled triangle the square on a side subtending an acute angle is less than the sum of the squares on the sides containing that angle by twice the rectangle contained by either of these sides and the intercept on that side between the acute angle and the foot of the perpendicular let fall from the opposite angle.

Hence prove that if  $ABC$  be a triangle and  $D, E, F$  the feet of the perpendiculars let fall from the vertices  $A, B, C$  on the opposite sides,

$$AB^2 + BC^2 + CA^2 = 2(AC \cdot AE + CB \cdot CD + BA \cdot BF).$$

3. Prove that the angle at the centre of a circle is double the angle at the circumference standing on the same arc.

If  $ABC$  be a triangle and  $D$  a point on the line  $AC$ , prove that the circles described round the triangles  $ADB, CDB$  intersect at an angle equal to  $B$ .

4. Prove that the rectangle contained by the sides of a triangle exceeds the square on the line bisecting the angle contained by them, by the rectangle contained by the segments of the base.

5. Show how to describe a circle about a given triangle.

Prove that if the perpendiculars  $AD, BE, CF$  drawn from the vertices of a triangle to the opposite sides meet in a point  $G$  the three rectangles  $AG \cdot GD, BG \cdot GE, CG \cdot GF$  are equal.

6. Show how to describe a regular pentagon on a given straight line as one of its sides.

7. Prove that if a line bisect any angle of a triangle it divides the opposite side into segments proportional to the adjacent sides, and conversely. [Consider both internal and external bisection of the angle.]

8. If any similar rectilineal figures be similarly described on the three sides of a right-angled triangle  $ABC$ , the figure on the hypotenuse is equal to the sum of those described on the other two sides.

Prove that if semicircles be described on the two sides containing the right angle of a right-angled triangle as diameters, the crescent-shaped portions of these semicircles lying outside the circle circumscribing the triangle are together equal in area to the triangle.

9. Prove that if a perpendicular  $BD$  be let fall from the right angle  $B$  of a triangle on the hypotenuse  $AC$ , and perpendiculars  $DE, DF$  be drawn from  $D$  to the sides  $AB, BC$ , the four points  $A, E, F, C$  lie on a circle.

10. Define a plane, and show that if two planes cut one another their common section is a right line.

11. Prove that the sum of any two plane angles of a trihedral angle is greater than the third.

Prove also that the sum of all the plane angles forming any solid angle is less than four right angles.

12. Define a sphere, a cylinder, and a cone.

Prove that every plane section of a sphere is a circle.

## SECOND PAPER—THREE HOURS.

1. Simplify

$$\left\{ \frac{(x^3 - a^3)^2}{a^3(a^6 - b^6)} + \frac{(x^3 + b^3)^2}{b^3(a^6 - b^6)} - \frac{x^6}{a^3b^3(a^3 + b^3)} \right\} (a^4 + a^2b^2 + b^4)(a - b);$$

$$\frac{a + b}{a + b + \frac{1}{a - b + \frac{1}{a + b}}}.$$

2. Find the greatest common measure and least common multiple of

$$x^4 + 2x^3 - 7x^2 - 8x + 12,$$

$$x^4 + 7x^3 + 8x^2 - 28x - 48.$$

3. Find the values of  $a, b, c, d$  so that

$$\frac{x^3}{(x-1)(x-2)} = ax + b + \frac{c}{x-1} + \frac{d}{x-2}$$

identically. Hence find the general form of the expansion of  $\frac{x^3}{(x-1)(x-2)}$  according to ascending and descending powers of  $x$  respectively.

What values of  $x$  make these expressions arithmetically intelligible?

4. A certain number has three digits which are in arithmetical progression. The quotient of the number by the units digit is 251, and the sum of the number and the number formed by reversing the digits is 1110. Find the number.

5. Solve the equations

$$\frac{x-1}{x-2} - \frac{x-2}{x-3} = \frac{x-3}{x-4} - \frac{x-4}{x-5}; \quad \frac{a}{x-a} + \frac{b}{x-b} = \frac{a^2+b^2}{x(x-a-b)} + \frac{ab}{x}.$$

6. Discuss the solution of the equation  $ax^2 + bx + c = 0$ , showing fully how the nature of the roots depends upon a function of the coefficients  $a, b, c$ .

Solve the equations

$$(1) \begin{cases} x^2 + xy = 84 \\ xy + y^2 = 60 \end{cases}; \quad (2) \begin{cases} x^4 + x^2y^2 + y^4 = 741 \\ x^2 - xy + y^2 = 19 \end{cases}.$$

7. From Glasgow to Carlisle is approximately 100 miles. Two trains start at the same moment, one from Glasgow to Carlisle, the other from Carlisle to Glasgow. They reach their destinations the former 3 hours the latter 1 hour and 20 minutes after they pass each other on the way. Find the speeds of the trains supposing each to run uniformly the whole way without stopping.

8. Find the sum of 7 terms of each of the series

$$(1) 3, -2, \frac{4}{3}, \text{etc.}, \quad (2) 3, \frac{1}{3}, -2\frac{1}{3}, \text{etc.},$$

and of an infinite number of terms if that admits of summation.

9. Prove that if  $A, B, C$  be the angles of a triangle and  $a, b, c$  be the opposite sides,

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

and that if a circle be described round the triangle each of these ratios is equal to twice the radius of the circle.

If  $A = 60^\circ$ ,  $B = 45^\circ$ , and  $c = 100$ , find the other parts, taking the cosine of  $15^\circ$  as  $\frac{\sqrt{3}+1}{2\sqrt{2}}$ .

10. Prove that in any triangle

$$\frac{\tan \frac{1}{2}(A-B)}{\tan \frac{1}{2}(A+B)} = \frac{a-b}{a+b}$$

Hence solve a triangle of which the sides are 25 and 30 and the included angle  $50^\circ$ .

11. A bird is perched on the top of a tree which is 80 feet high; the angle of elevation of the bird is then  $45^\circ$ . It flies off horizontally straight away from the observer, and in one second its angular elevation is reduced to  $30^\circ$ . Find its speed in miles per hour.

12. Prove the addition formula of trigonometry, namely,

$$\sin(A+B) = \sin A \cos B + \cos A \sin B,$$

and deduce the three similar and related formulæ.

13. The radii of the circumscribed and inscribed circles of a triangle are  $R, r$ , the area of the triangle is  $S$ , and its semi-perimeter  $s$ . Prove that  $\frac{4S^2}{abc} = \frac{r}{R} \cdot s$ .

## NATURAL PHILOSOPHY.

### FIRST PAPER—THREE HOURS.

N.B. *Candidates are strongly advised to answer a few questions well rather than a large number indifferently.*

1. What do you mean by force? State the proposition known as the parallelogram of forces, and deduce it from the parallelogram of accelerations.

If  $P, Q$  be two forces,  $R$  their resultant, and  $\theta, \alpha, \beta$  the angles which the directions of the forces make with one another and with the resultant, prove that

$$R^2 = P^2 + Q^2 + 2PQ \cos \theta,$$

$$\cos \alpha = \frac{P + Q \cos \theta}{R}, \quad \cos \beta = \frac{Q + P \cos \theta}{R},$$

and account for the results obtained in each case when  $\theta = 0$ ,  $\theta = 90^\circ$ ,  $\theta = 180^\circ$ .

2. Define a couple and show how to represent its moment in direction and magnitude by a straight line.

Show that if two couples of equal and opposite moments act in parallel planes upon a rigid body the body is in equilibrium.

3. An ounce bullet has a velocity at the muzzle of a rifle of 1000 feet per second; supposing the acceleration of the bullet uniform while the bullet is in the gun, find the time taken to traverse the barrel, which is two feet long: and calculate the average force on the bullet and the average activity in the barrel.

4. Two masses  $m$ ,  $m'$ , are suspended by a fine thread passing over a smooth peg; find the tension of the cord, and the acceleration of the masses. Work out for masses 5 ounces and 6 ounces respectively, stating precisely the units in which you give the answers.

After the system has been in motion for 4 seconds 3 ounces are suddenly added to the smaller mass; find the velocity immediately after, and the time taken by the masses to return to their original position.

5. A body is projected with velocity  $v$  at an angle  $\theta$  to the horizontal, find the height and horizontal distance of the body from the point of projection  $t$  seconds afterwards.

Find the total horizontal range and time of flight for elevation  $\theta$ . Find also the elevation for which the horizontal range is a maximum.

6. A beam 15 feet long hinged at the lowest point and having a mass of 1 ton hung from its upper end is supported by a horizontal chain attached to the beam 12 feet from the hinge, so that the angle between the chain and the beam is  $60^\circ$ . Find (neglecting the weight of the beam) the tension of the chain and the thrust of the beam against the hinge.

7. The bob of a simple pendulum 30 feet long vibrates in one plane through an arc of  $10^\circ$  on each side of the mean position. Calculate the period, and the tension of the cord (1) when the bob is at the extremity of its range, (2) when it is at its lowest point. [Mass of bob = 24 lbs.]

8. Describe experiments illustrative of the viscosity of fluids.

Distinguish exactly between viscous resistance to change of shape and true elastic resistance to change of shape. Distinguish also between viscosity and plasticity.

9. Explain how the mercury in a barometer tube is supported.

An iron ball floats on the surface of mercury in the tube of a barometer. Does it affect the height of the column of mercury? State clearly your reasons for your answer.

10. State fully the principle of Archimedes.

A body floats in a liquid of specific gravity  $s_1$ , with a certain fraction  $f$  of its volume immersed, in a liquid of specific gravity  $s_2$  it floats with the fraction  $1-f$  of its volume immersed. Show that the specific gravity of the solid is  $\frac{s_1 s_2}{s_1 + s_2}$ .

11. A vessel is kept full of water which flows out by a hole near the

bottom. Show that the velocity of efflux is equal to the velocity acquired by a body in falling freely through a height equal to the depth of the orifice below the level of the liquid.

Show that if the orifice is half-way between the top and the bottom of the vessel the range of the jet on a horizontal plane through the base is equal to the height of the vessel.

## SECOND PAPER—THREE HOURS.

1. Define work, energy, horse power.

Find the work done in each stroke on the piston of a steam engine, the length of stroke being 22 inches, the diameter of the cylinder 12 inches, and the average pressure of the steam during the stroke being 35 pounds per square inch above atmospheric pressure.

2. The pendulum of a clock, regulated to beat seconds at  $14^{\circ}\text{C.}$ , becomes lengthened by  $\frac{1}{200000}$  per  $1^{\circ}\text{C.}$  rise of temperature. How much does the clock lose per day when the temperature is  $17^{\circ}\text{C.}$ ?

3. Describe Nicholson's hydrometer, and explain how to find the specific gravity of a crystal insoluble in water by means of it.

4. Describe some practical form of air thermometer, explaining how it is used. Define the temperatures,  $0^{\circ}\text{C.}$ ,  $100^{\circ}\text{C.}$ , and  $33^{\circ}\text{C.}$

5. State the laws of Boyle and Charles, and explain to what extent these laws are applicable to real gases. Describe the behaviour of carbonic acid gas under wide variations of temperature and pressure, and give diagrams.

6. A small metal globe, heated to  $100^{\circ}\text{C.}$ , is hung in the air, which is at  $0^{\circ}\text{C.}$ , to cool. In the first half minute it cools by  $2^{\circ}$ . Find the temperature at the end of half an hour. State Newton's law of cooling.

7. Describe Bunsen's ice calorimeter, and explain how it is used. How much ice will be melted if a lump of copper weighing 2 lbs., and at  $68^{\circ}\text{C.}$ , is dropped into a hole cut in a block of ice? [Specific heat of copper, 0.096.]

8. Define specific heat of a gas pressure constant, and specific heat volume constant. Which is the greater? Which can be determined by direct experiment? How can the ratio between the two be found?

9. Describe experiments for showing polarization of light by reflection. What is meant by rotation of the plane of polarization? How can this phenomenon be used as a test for the purity or value of certain organic bodies?

10. State accurately the law of attraction and repulsion between two electrified bodies. How has the law been proved?

11. Find the force on a unit north pole placed in the centre of a circle of three turns of insulated wire, through which  $\frac{1}{10}$  ampere is passing, the diameter of the circle being 30 centimetres.

12. Define electric potential. Show the relation between electric potential at a point and component force in any direction at that point.

## D.—DEPARTMENT OF HISTORY AND LAW.

## ROMAN LAW.

1. What were the *comitia curiata*, *comitia centuriata*, and *comitia tributa*?
2. Write a short account of the legislation of Justinian.
3. Explain and distinguish the terms *jus civile*, *jus honorarium*, *jus gentium*, and *jus naturale*.
4. *Omne autem jus quo utimur vel ad personas pertinet, vel ad res vel ad actiones.* Translate and explain.
5. What were *adoptio* and *arrogatio*? What changes were made in the law regarding them by Justinian?
6. State the rules of the civil law (1) where the owner of the soil built upon it with the materials of another, (2) where the owner of materials built upon the soil of another.
7. What were the privileges of soldiers in regard to the making of testaments?
8. Explain the following terms:—*Substitutio pupillaris*, *sui heredes*, *quarta Falcidia*, *bonorum possessio unde liberi*, *bonorum addictio*.
9. State the elements necessary to constitute *furtum*, and the remedies open to the owner of a thing stolen.
10. State shortly the provisions and application of the *Lex Aquilia*.
11. Explain the distinction between—
  - (1) *Actio in rem* and *Actio in personam*.
  - (2) *Actio directa* and *Actio utilis*.
  - (3) *Actio in jure concepta* and *Actio in factum concepta*.
12. Enumerate the principal divisions of interdicts. Explain the nature of the following interdicts, viz., *quorum bonorum*, *uti possidetis*, *utrubi possidetis*, *unde vi*.

## II. FOR DEGREE OF M.A. WITH HONOURS

(AND FOR SNELL EXHIBITION, APRIL, 1894).

## LATIN TRANSLATION—THREE HOURS.

1. Translate:—
  - (a) Virg. *Aen.* XII. 829—841.
  - (b) Hor. *Sat.* II. ii. 114—125.
  - (c) Juv. VIII. 195—210.
  - (d) Tac. *Ann.* IV. 19, 20.
  - (e) Livy XXII. 60, 14—16.
2. Translate *one* of the following passages:—
  - (a) Catull. LXVI. 47—56.
  - (b) Plant. *Most.* 823—831.
3. Translate *one* of the following passages:—
  - (a) Cic. *Phil.* V. 5.
  - (b) Cic. *Att.* 13, 12.



## 4. Translate the following passage not previously read :—

Navigabamus a Cassiopeia ad Brundisium, mare Ionium violentum et vastum et iactabundum : nox deinde quae diem primum sequuta est, in ea fere tota ventus a latere saeviens navem undis compleverat. Tum postea complorantibus nostris omnibus atque in sentina satis agentibus dies quidem tandem illuxit, sed nihil de periculo neque de saevitia amissum, quin turbiues etiam crebriores et caelum atrum et fumigantes globi et figurae quaedam nubium metuendae quas *τυφώνας* vocabant impendere imminereque ac depressuræ navem videbantur. In eadem fuit philosophus in disciplina Stoica celebratus quem ego Athenis cognoveram, non parva virum auctoritate satisque attente discipulos iuvenes continentem. Eum tunc in tantis periculis inque illo tumultu caeli marisque requirebam oculis, scire cupiens quonam statu animi et an interritus intrepidusque esset : atque ibi hominem conspicimus impavidum, ploratus quidem nullos sicuti caeteri omnes nec ullas eiusmodi voces cientem, sed coloris et vultus turbatione non multum a ceteris differentem.

## LATIN PROSE.—THREE HOURS.

The faults of which he was principally accused were not such as the English people would find it very hard to forgive. He was said to be too brusque and high-handed in his dealings with foreign states and ministers ; but it did not seem to the English people in general as if this was an offence for which his own countrymen were bound to condemn him too severely. There was a general impression that his influence was exercised on behalf of popular movements abroad, and an impression nearly as general that if he had not acted a good deal on his own impulses and of his own authority he could hardly have served any popular cause so well. Napoleon's *coup d'état* certainly was not popular in England. For a long time it was a subject of general reprehension ; but even at that time men who condemned the *coup d'état* were not disposed to condemn Lord Palmerston overmuch because, acting as usual on a personal impulse, he had in that instance made a mistake. There was even in his error something dashing, showy, and captivating to the general public. He made the influence of England felt, people said. His chief fault was that he was rather too strong for those around him. If any grave crisis came, he, it was murmured, and he alone, would be equal to the occasion and would maintain the dignity of England. Neither in war nor in statesmanship does a man suffer much loss of popularity by occasionally disobeying orders and accomplishing daring feats.

## LATIN GENERAL PAPER—ONE HOUR AND A HALF.

## 1. Translate, with short notes on the syntax or the allusions :—

(a) Ille mihi ante alios fortunatusque laborum

Egregiusque animi, qui, nequid tale videret,

Procubuit moriens. (VIRG.)

(b) Centaurea monet cum Lapithis rixa super mero

Debellata, monet Sithoniis non levis Eniūs. (HOR.)

(c) Totus quinquatribus optat

Quisquis adhuc uno parcam colit asse Minervam. (JUV.)

(d) Utque munere capessendi vigintiviratus solveretur et quinquennio maturius quam per leges quaesturam peteret. (TAC.)

2. Compare the Latin use of the Subjunctive with the Greek use of the Subjunctive and Optative. What Subjunctives in Latin are shown by their form to have been originally Optatives?

3. Give a history of the Hexameter in Latin literature.

*Or*, Quote from the Latin poets any passage you remember in which mention is made of Britain, its inhabitants and products.

4. What was the Roman system of raising the revenue?

*Or*, Explain Cicero's relations with the Equites.

### GREEK TRANSLATION—THREE HOURS.

1. Translate :—

(a) Hom. *Od.* VIII. 67—81.

(b) Aesch. *Ag.* 818—828.

(c) Thuc. III. 82.

2. Translate one of the following :—

(a) Soph. *Ant.* 955—965.

(b) Theocr. VII. 148—157.

3. Translate one of the following :—

(a) Plat. *Theaet.* 194 c-d.

(b) Arist. *Const. Ath.* 48. 4.

4. Translate these passages not previously read :—

(a) Ἐπεὶ καὶ τῶν ὑδάτων περὶ γεωργοῦσι παλαιοὶ καὶ καλοὶ νόμοι κείμενοι οὐκ ἄξιοι παροχετεῖν λόγοις, ἀλλ' ὁ βουλευθεὶς ἐπὶ τὸν αὐτοῦ τόπον ἄγειν ὕδωρ ἀγέτω μὲν ἀρχόμενος ἐκ τῶν κοινῶν ναμάτων, μὴ ὑποτέμνων πηγὰς φανεράς ἰδιώτου μηδενός, ἣ δ' ἂν βούληται ἄγειν, πλὴν δι' οἰκίας ἢ ἱερῶν τινῶν ἢ καὶ μνημάτων, ἀγέτω, μὴ βλάπτων πλὴν αὐτῆς τῆς ὀχεταγωγίας· ἀνδρία δὲ εἴ τισι τόποις ξύμφυτος ἐκ γῆς τὰ ἐκ Διὸς ἰόντα ἀποστέγει νάματα, καὶ ἐλλείπει τῶν ἀναγκαίων πωμάτων, ὀρυττέτω μὲν ἐν τῷ αὐτοῦ χωρίῳ μέχρι τῆς κεραμίδος γῆς, ἐὰν δ' ἐν τούτῳ τῷ βάθει μηδαμῶς ὕδατι προστυγχάνῃ, παρὰ τῶν γειτόνων ὑδρενέσθω μέχρι τοῦ ἀναγκαίου πώματος ἐκάστοις τῶν οἰκετῶν.

(b) Ὡς ἡμερὸς μ' ὑπῆλθε γῇ τε κούρανῳ  
λέξαι μολόντι τοῦπον ὡς ἐσκεύασα.  
νῆ τὴν Ἀθηνῶν ἡδύ γ' ἔστ' εὐήμερεῖν  
ἐν ἅπασιν· ἰχθύς ἀπαλὸς οἷος γέγονέ μοι,  
οἷον παρατέθεικε', οὐ πεφαρμακευμένον  
τυροῖσιν, οὐδ' ἄνωθεν ἐξανθισμένον,  
ἀλλ' οἷος ἦν ζῶν, κώπτὸς ὦν τοιοῦτος ἦν·  
οὕτως ἀπαλὸν ἔδωκα καὶ πρᾶον τὸ πῦρ  
ὀπτῶν τὸν ἰχθύν. † [οὐδὲ πιστευθήσομαι.]  
ὅμοιον ἐγένετ', ὅρnis ὁπότεν ἀρπάσῃ  
τοῦ καταπιεῖν μεῖζόν τι· περιτρέχει κύκλῳ  
τηροῦσα τοῦτο, καταπιεῖν δ' ἐσπούδακεν,  
ἕτεραι διώκουσιν δὲ ταύτην. ταύτην ἦν.

### SPECIAL BOOKS.

5. Translate with notes *six* of these passages :—

(a) Μὴ τεχνησάμενος μὴδ' ἄλλο τι τεχνήσαιο

ὃς κείνων τελαμῶνα εἴῃ ἐγκάτθετο τέχνη.

(b) Ἐνθα μὲν εἰς Ἀχέροντα Πυριφλεγέθων τε ῥέουσιν  
Κωκυτός θ' ὃς δὴ Στυγὸς ὕδατός ἐστιν ἀπορρώξ.

(c) Τῆς γὰρ ἐμῆς, εἰ δὴ τις ἐστὶ σοφία καὶ οἷα, μάρτυρα ἡμῖν ποιήσομαι τὸν θεὸν τὸν ἐν Δελφοῖς.

(d) Τιμᾶται δ' οὖν μοι ὁ ἀνὴρ θανάτου. εἶεν· ἐγὼ δὲ δὴ τίνος ἡμῖν ἀντιτιμῆσομαι, ὧς ἄνδρες Ἀθηναῖοι :

(e) Τραγωδίας δὲ εἶδη εἰσὶ τέσσαρα, τοσαῦτα γὰρ καὶ τὰ μέρη ἐλέχθη, ἡ μὲν πεπλεγμένη, ἥς τὸ ὅλον ἐστὶν περιπέτεια καὶ ἀναγνώρισις, κ.τ.λ.

(f) Οἱ μὲν γὰρ ἀρχαῖοι πολιτικῶς ἐποίουν λέγοντας, οἱ δὲ νῦν ῥητορικῶς.

(g) Τί σοι δοκεῖ ; μίρανά γ' εἴτ' ἔχιδν' ἔφν,  
σῆπειν θιγοῦσ' ἂν μᾶλλον ἢ δεδηγμένον,  
τόλμης ἕκατι κἀδίκου φρονήματος ;

(h) Ἐπειτ' ἐγὼ νοσφίσας ὀλοίμαν.

ἐμασχαλίσθη δὲ γ', ὥς τὸδ' εἰδῆς.

## GREEK PROSE—THREE HOURS.

He then spoke of his own conquests, of the scanty means with which he began his expedition, and of the immense change it had made in the fortunes of his followers ; for all he had won was theirs : he had conquered, not to enrich himself, but them : for himself he reserved nothing but the purple and the diadem. So the speech dexterously, and not less boldly, asserts : as if they had been expected to believe that his treasury had been drained by his munificence. He could more truly claim the merit of greater personal risks and sufferings than any of them were able to allege, which, if they, and not he, had been the gainers by his victories, would doubtless have been an argument of some weight. He, however, reminded them more particularly of the splendid rewards they had received for their services ; and, finally, he bade them go and make it known at home that, after a series of triumphs such as no conqueror had before achieved, they had abandoned their king, and consigned him to the guard of the barbarians whom he had subdued. "This conduct," he concludes with emphatic irony, "may perhaps be honourable in the judgment of men, and pious in the eyes of the gods. Away !" So saying, he hastily quitted the stand, attended by his great officers and his guard, and shut himself up in the palace, where he neglected his ordinary refreshments, and for two days refused to admit even his most intimate friends to his presence.

## GREEK GENERAL PAPER—ONE HOUR AND A HALF.

1. Compare the Homeric with the later use of (a) reduplication as a mark of tense, (b) the subjunctive mood. Give instances of forms of words falsely formed, which have crept into our text of Homer, and explain their origin. Or,

Explain the meaning of the words—*ἄγος*, *ὑβρις*, *αἰδώς*, *ἄγη*.

2. "Each kind of literature would flourish successively when original, all simultaneously when artificial." Explain this. Is it true of Greece ? Or,

Explain the mythological significance of—Atlas, Hecate, Kore, Dionysus.

3. Give some account of Slavery in Greece. *Or*,  
Give some account of Vase-Painting.
4. What Ionic words are found in the Attic poets? How do you explain their use? *Or*,  
Explain the metrical terms—Dochmiac, Choriambic, Glyconic, Anapaestic.

## LOGIC AND METAPHYSICS.

### FIRST PAPER—THREE HOURS.

1. "Reid's doctrine of External Perception bears a close analogy to the Cartesian scheme of 'occasional causes.'" What ambiguities in Reid's statement seem to justify this criticism by Hamilton?
2. What does Hamilton mean by the Secundo-Primary qualities of body, and what is their significance in his metaphysical theory?
3. "The notion of myself presupposes the notion of God." How far is this dictum of Descartes consistent with his principle *cogito ergo sum*, and the deductions from it?
4. How far can Locke be said to have anticipated the modern doctrine (a) of Determinism, (b) of the Association of ideas?
5. Compare the doctrines of Locke and Hume as to the nature and origin of our ideas of causality.
6. What different views have been advanced as to the *primum cognitum*? Show the bearing of your answer on the question of the psychological character and genesis of concepts.
7. What psychological facts have given rise to the theory of latent mental modifications? State and criticise this theory.
8. State precisely the nature of Force and Law as conceived by Hegel. Examine his view.
9. State and examine Hegel's view of Finite and the Infinite. Notice his criticism of "the progressive infinite." Specially remark on this point, and on what he calls "the true infinite."

### SECOND PAPER—THREE HOURS.

1. Show how the processes known as Immediate Inference depend upon the formal laws of thought. Explain what is meant by "immediate inference by added determinants." Consider whether this process is fallacious or not.
2. What different views were taken by Mill and Hamilton as to the nature of (1) Judgment, (2) Syllogism? How would you propose to solve the questions here at issue between them?
3. What is meant by the modality of propositions? Are judgments of necessity reducible to the universal, those of possibility to the particular of ordinary logic?
4. Is inductive reasoning reducible to syllogistic form? Estimate the value of the attempts so to reduce it.
5. Describe the Method of Concomitant Variations. Indicate (a) circumstances under which we should have resort to it in preference to the Method of Difference, (b) the advantage of the latter over it under more favourable circumstances, (c) what functions are served by it generally in scientific investigation.

6. Distinguish between artificial and natural classification. State and illustrate from any science with which you are acquainted the principles usually laid down for the latter.

7. Sketch the doctrines and position of Protagoras in Greek philosophy.

8. Give an account of the main points in the philosophical system of any two of the following :—(a) Spinoza, (b) Malebranche, (c) Leibnitz, (d) Reid.

## MORAL PHILOSOPHY.

### FIRST PAPER—THREE HOURS.

*Candidates are requested to confine themselves to SEVEN of these questions.*

1. How far do you consider the purpose of Plato's Republic to have been practical? In so far as it was so, is it more properly described as conservative or revolutionary?

2. How far is Aristotle's doctrine of End or Function anticipated in the First Book of the Republic?

3. In what sense and on what grounds does Aristotle maintain that the virtuous man must be a lover of himself? Compare his view with that of Mr. Spencer.

4. Explain Kant's two views of the act of Judgment, and consider the possibility of reconciling them. Refer in illustration to recent views of the nature of Judgment.

5. "Kant's treatment of the Moral Argument for the being of God is liable to the same objection which he brings against the Ontological Argument, and the same modification would meet the difficulty in both cases." Explain and examine this statement.

6. State and criticise Green's view of the relation of desire to will.

7. State and criticise Mr. Spencer's doctrine of an Absolute Ethics.

8. "It is more accurate to say that my conduct is determined by the pleasantest judgment than to say that it is determined by my judgment of what is most pleasant." Is this view consistent with Hedonism?

9. "The ideal of virtue must combine the Greek with the medieval ideal." Examine this, with special reference to Aristotle's view.

10. Does the view of the Absolute which Spinoza reaches by means of the principle that "Determination is negation" involve a necessary opposition between thought and reality?

### SECOND PAPER—THREE HOURS.

*Candidates are requested to confine themselves to SEVEN of these questions.*

1. Discuss the doctrine that reality is constituted by relations.

2. "The idea of organic unity is the criterion of reality, yet it after all is merely an idea." Discuss this view.

3. Criticise the doctrine that morality is the identification of the individual's will with his own idea of perfection.

4. "Goodness is ultimately self-contradictory; for, whether it be described as self-sacrifice or self-realisation, its end is unattainable." Examine this.

5. Distinguish between society and state, and discuss the statement that the Greeks merged the former in the latter.

6. "Ethics deals with the relation of the individual to himself, and Politics with his relation to society." Examine this.

7. Distinguish between Justice and Beneficence. Discuss Mr. Spencer's view that the former consists in promoting the natural consequences of actions, and the latter in counteracting them in the direction of mercy.

8. "Order is the end of progress, progress is the development of order." Explain with reference to this statement the general law of social and political movement.

9. Does the dependence of intellectual and moral growth upon habit imply a mechanical view of such growth?

10. Does the idea of religion necessarily lead to determinism?

## MATHEMATICS.

### FIRST PAPER—THREE HOURS.

1. Prove that  $(x+y)^3(x+9y) - 64xy^3$  is a perfect square, and hence that if  $a$  is any given integer of the form  $9m$  or  $9m+1$ , the indeterminate equation  $au^3 - v^3 = w^2$  can be satisfied by integral values of  $u, v, w$ . For example if  $a=100$ , we may put  $u=3, v=11, w=27$ .

2. Solve the equation

$$2ix^2 + (5+3i)x + 3(1-i) = 0$$

(where  $i = \sqrt{-1}$ ) reducing the roots to the form  $u+vi$ , where  $u, v$ , are rational: and find to two places of decimals the roots of

$$x^2 - ix + i = 0.$$

3. Prove that the coordinates of any point on an ellipse are expressed by the equations

$$\frac{x}{a} + \frac{yi}{b} = \frac{1+ti}{1-ti}$$

$$\frac{x}{a} - \frac{yi}{b} = \frac{1-ti}{1+ti}$$

Show that the equation of the chord joining the points whose parameters are  $t_1, t_2$  is

$$\frac{x}{a}(1-t_1t_2) + \frac{y}{b}(t_1+t_2) - (1+t_1t_2) = 0.$$

4. Prove the fundamental formula of spherical trigonometry, namely

$$\cos c = \cos a \cos b + \sin b \sin c \cos C,$$

and deduce the corresponding formula for  $\cos C$  by means of the polar triangle.

Prove that if two small circles on a sphere of radii  $a$  and  $\beta$  (measured along great circles on the surface) touch one another the length of the common tangent is a quadrant if

$$\tan a \tan \beta = \frac{1}{2}.$$



5. State and prove Napier's rules for the solution of right-angled triangles.

Prove that if  $a$  and  $b$  be the sides of a right-angled triangle,  $A$  and  $B$  the corresponding angles

$$\tan \frac{a}{2} \cot \frac{b}{2} = \tan \left( \frac{\pi}{4} + \frac{A-B}{2} \right).$$

6. Prove that

$$\int_{-\infty}^{+\infty} \frac{y^{k-1}}{1+y} = \frac{2\pi}{\sin k\pi},$$

where  $0 < k < 1$ .

Define the gamma function and prove that

$$\Gamma(n)\Gamma(1-n) = \frac{\pi}{\sin n\pi}.$$

Apply this result to find the value of  $\int_0^\infty e^{-y^2} dy$ .

7. Prove that  $\frac{d}{dc} \int_a^b f(x, c) dx = \int_a^b \frac{df(x, c)}{dc} dx$ ,

and state any limitation under which this theorem is true.

Expand  $\log(1 - 2a \cos x + a^2)$  in a convergent series of cosines of multiples of  $x$ , (1) when  $a < 1$ , (2) when  $a > 1$ . Hence find

$$\int_0^\pi \log(1 - 2a \cos x + a^2) dx,$$

and prove that

$$\pi = a \int_0^\pi \frac{a - \cos x}{1 - 2a \cos x + a^2} dx.$$

8. Define the envelope of a family of curves, and show how to find its equation when the curves are defined by a pair of parameters connected by a given relation.

$P$  is a point on a parabola of which  $A$  is the vertex, find the equation of the curve touched by all circles described on  $AP$  as diameter.

9. Expand  $\frac{1}{e^h - 1} - \frac{1}{h}$  in a series of ascending powers of  $h$ , and calculate the first three terms of the series.

If the coefficients of the 2nd, 3rd, etc., terms be  $B_1, B_2$ , etc., prove that

$$\sum_{r=1}^{\infty} \frac{1}{n^{2r}} = \frac{2^{2r-1} \pi^{2r}}{(2r)!} B_{2r-1}.$$

10. An equilateral hyperbola is drawn in the quadrant between the positive directions of the axes of  $x$  and  $y$ , and on the successive units of length along the axis of  $x$  beginning with the second, rectangles are described of the largest area consistent with having each one corner on the curve. Prove that if this process is continued to infinity the sum of the portions of the rectangles outside the curve is the value of

$$\text{Lt}_{n=\infty} \left( \sum \frac{1}{n} - \log n \right).$$

Hence show that this expression has a finite value.

## SECOND PAPER—THREE HOURS.

1. Find the condition that the general equation of the second degree may represent two planes, and express it as a determinant.

Prove that if  $ax^2 + by^2 + cz^2 + 2fyz + 2gzx + 2hxy = 0$  represent a pair of planes the angle between them is

$$\cot^{-1} \frac{a+b+c}{2\sqrt{f^2+g^2+h^2-bc-ca-ab}}.$$

2. Two tangent planes are drawn to the cone  $ax^2 + by^2 + cz^2 = 0$ , so as to intersect at a given angle, prove that the locus of their intersection is the quartic cone

$$(x^2 + y^2 + z^2)(ax^2 + by^2 + cz^2) - m\{a(b+c)x^2 + b(c+a)y^2 + c(a+b)z^2\}^2 = 0,$$

where  $m$  is a constant. Account for the form of the results obtained by putting  $m = 0$ ,  $m = \infty$ .

3. Obtain the equations of a rectilinear generator of the hyperboloid

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = 1,$$

in the form

$$\frac{x - a \cos \theta}{a \sin \theta} = \frac{y - b \sin \theta}{-b \cos \theta} = \pm \frac{z}{c}.$$

Two points are taken on the principal elliptic section such that the eccentric angle of one is double that of the other, prove that the locus of the intersections of the generators through the points consists of two cubic curves, one of which is defined by the equations

$$x = \frac{a(1-3t^2)}{1+t^2}, \quad y = \frac{bt(3-t^2)}{1+t^2}, \quad z = ct,$$

while the corresponding equations for the other are obtained by changing the sign of  $c$ .

4. A tangent is drawn to the curve  $y^2 - 4ax = 0$ , perpendicular to a tangent of  $y^2 - 4bx = 0$ , prove that the locus of their intersection is the quartic curve

$$(x+a)(x+b)y^2 + (x^2 - ab)^2 = 0.$$

Trace this curve (1) when  $a, b$  are of the same sign, (2) when  $a, b$  are of opposite signs.

Account for the results obtained by putting  $a = b$ .

5. Prove that if  $D$  denote  $\frac{d}{dx}$ , and  $f(D)$  be any rational algebraical function of  $D$ , then

$$f(D)uv = u f(D)v + Du f'(D)v + \frac{D^2 u}{2!} f''(D)v + \dots$$

Hence or otherwise find the complete solution of the equation

$$\frac{d^2 y}{dx^2} - 7 \frac{dy}{dx} + 12y = x^2 \log x.$$

6. Explain how to solve a linear differential equation by means of series. Find a solution by means of a series in ascending powers of  $x$  of the equation

$$x \frac{d^2 u}{dx^2} + u = 0.$$

If  $\phi$  denote this series show that the complete solution is

$$y = A\phi + B\phi \int \frac{dx}{\phi^2}.$$

7. Put the equation 
$$\frac{d^2 V}{dx^2} + \frac{d^2 V}{dy^2} + \frac{d^2 V}{dz^2} = 0$$

into a form suitable for values of  $V$  symmetrical about the axis of  $x$ .

If  $\phi = \sqrt{a^2 + x^2} - x$  be the value of  $V$  at points on the axis of  $x$  find the value for points at a distance  $\rho$  from the axis.

8. Assuming the possibility of Fourier's expansion of an arbitrary function of a single variable in a series of sines and cosines of successive multiples of  $x$ , show how to determine the coefficients. Hence find an expansion which is equal to  $+c$  from  $x=0$  to  $x=\pi$ , and equal to  $-c$  from  $x=\pi$  to  $x=2\pi$

Draw the graph of the function for other values of  $x$ .

9. Given 
$$\begin{aligned} \log 121 &= 2.0827854 \\ \log 122 &= 2.0863598 \\ \log 124 &= 2.0934217 \\ \log 125 &= 2.0969100 \end{aligned}$$

find  $\log 123$ .

10. Solve 
$$\begin{aligned} u_{x+3} - 27u_{x+1} &= 8v_x, \\ v_{x+3} - v_{x+1} &= u_x. \end{aligned}$$

11. Find the sum of the series, the general term of which is

$$\frac{x^2}{(x-1)(x+1)(x+2)(x+3)}.$$

## NATURAL PHILOSOPHY.

### FIRST PAPER.—THREE HOURS.

*April, 1893.*

1. Define moment of inertia and radius of gyration of a body round a given axis.

Prove that the moment of inertia of a system round any axis is equal to the moment of inertia round a parallel axis through the centre of inertia, together with the moment of inertia round the given axis of a particle of mass equal to the total mass of the system and situated at the centre of inertia.

2. What is meant by Poinsot's momental ellipsoid? Prove that such an ellipsoid can be described round every point of a rigid body as centre.

3. Show that if  $\theta$  be the deflection of a ballistic pendulum when a bullet of mass  $m$  is fired into it with velocity  $v$ ,

$$v = 2 \frac{Mk \sqrt{gh}}{mp} \sin \frac{\theta}{2},$$

where  $p$ ,  $h$ , are the distances of the line of motion of the bullet and the

centre of inertia from the line of knife-edges, and  $k$  is the radius of gyration round the knife-edges.

Supposing the pendulum to consist of a solid cylinder of radius  $r$  and length  $l$  suspended with its axis at right angles to the vertical plane through the knife-edges calculate the value of  $k$ .

4. State Kepler's laws and make Newton's deductions from them.

Correct the third law so as to take into account the mass of the planet.

5. Write down Lagrange's equations of motion in generalised co-ordinates explaining fully the notation.

A simple pendulum of mass  $\mu$  and length  $r$  is suspended from the bob of another simple pendulum of mass  $m$  and length  $l$ , and both vibrate in the same plane; find the kinetic and potential energies of the system, when the latter pendulum is inclined at an angle  $\theta$ , and the former at an angle  $\phi$  to the vertical. Hence write down by Lagrange's method the equations of motion of the bobs.

6. Find the period of a simple pendulum vibrating through small arcs. Find a first approximation to the effect of arc of vibration on the period.

Show that the period of an infinitesimal satellite revolving just outside a uniform sphere is equal to the period of a simple pendulum, of length equal to the radius of the sphere, making small vibrations under the attraction of the sphere with its bob close to the surface. Find the period of such a satellite for the earth, taking the radius as  $21 \times 10^6$  feet.

7. A particle is acted on by two central forces (equal at the same distance) one repulsive, the other attractive and varying inversely as the squares of the distances of the particle from the centres. Find the equation (1) of an equipotential surface, (2) of a line of force of this system and verify that they intersect at right angles.

What does the equation of the line of force become when the centres are very close together?

8. Define Stress and Strain and a Modulus of Elasticity. Show how Young's modulus, the rigidity modulus, and the bulk modulus are related in the case of an isotropic body. Find the modulus of simple longitudinal strain.

9. Define homogeneous strain, and state its principal properties. Find the equation of the strain ellipsoid, and deduce the conditions that the strain may be pure.

10. Criticise the Poisson-Navier view of the relation between the bulk and the rigidity moduli.

Find in terms of the moduli the ratio of lateral contraction to longitudinal extension of a rod or wire acted on by simple longitudinal pull, and give examples of its numerical value in different cases.

11. What is meant by the torsional rigidity of a rod or wire? Show that if  $n$  be the rigidity modulus of the material, the modulus of torsional rigidity of a right cylindrical tube is  $n(r'^4 - r^4)\pi/2$  where  $r'$ ,  $r$  are the external and internal radii. Hence find the torsional resilience per unit volume of a right cylindrical rod.

Show that if a solid elliptic cylinder is twisted round its axis, the cross-sections will be warped in opposite directions in adjoining quadrants marked out by the principal axes of the section.

12. Prove the theorem of Gauss that the potential at the centre of a spherical surface drawn in an electric field and not containing in it any electricity is equal to the average potential over the surface.

Hence show that if the potential is constant over any portion of space in an electric field it is constant through every part of the field that can be reached from that portion without passing through electricity.

13. State the laws of the induction of currents by the motion of conductors in a magnetic field. A coil consisting of 100 turns of wire each 30 inches in diameter is whirled round an east and west horizontal axis in the earth's field and is provided with a commutator to send the current always in the same direction through a galvanometer in the circuit. Taking the earth's total magnetic force as  $\cdot 43$  c.g.s. find the maximum e.m.f. in the circuit in any one revolution and the average e.m.f., if the number of revolutions per second is 50.

14. Explain fully one of the following: (1) a method of determining a resistance in absolute units, (2) the comparison of two coefficients of self-induction, (3) a method of comparing the electro-magnetic unit of quantity of electricity with the electrostatic unit. Sketch either of the two others.

## SECOND PAPER.—THREE HOURS.

*April, 1892.*

1. In an infinite homogeneous solid at uniform temperature, let an infinitely small portion be suddenly heated by a finite quantity  $q$  of heat. Find the temperature at time  $t$  at a distance  $r$  from the place thus primitively heated.

2. Find the distribution of temperature at time  $t$  in an infinitely thin ring with given initial distribution; supposing the ring to be coated with impermeable varnish.

3. State and explain the Hamiltonian characteristic equation for the motion of a material point confined to one plane. Illustrate it by ordinary parabolic motion, and explain its relation to aiming.

4. Find the Hamiltonian characteristic function for rays of light passing from a given point  $P$  on one side to another given point  $P'$  on the other side, of a convex lens; both points infinitely near the axis.

5. Investigate the expression for fluid pressure in irrotational motion of a liquid, under the influence of gravity.

6. State the general law of circulation in any closed line of particles of a liquid; and deduce Helmholtz's laws of vortex motion.

7. Investigate the principal flexural rigidities of a beam of any given cross section; or investigate the flexural rigidity of a rod of circular cross section.

8. Investigate the electric images in two infinite conducting planes meeting at a right angle; supposing an electrified body to be fixed anywhere in this angle.

9. Investigate the density of electricity on an uninsulated conducting sphere of radius  $r$  due to a quantity  $q$  of electricity, concentrated at a point distance  $D$  from the centre of the sphere.

10. Find how much zinc is consumed per hour in a battery of 80 Daniell cells (1.07 volts per cell) sending a current of electricity through an incandescent lamp whose resistance is 65 ohms. The battery is joined in series, and its total internal resistance is 7 ohms. (One coulomb decomposes 0.000092 grm. of water; atomic weight of zinc 65.)

### III.—FOR DEGREE OF B.Sc.

#### A.—IN PURE SCIENCE.

##### FIRST EXAMINATION.

1. MATHEMATICS. See pp. 379—381.
2. NATURAL PHILOSOPHY. See pp. 381—383.
3. CHEMISTRY. See p. 414.
4. BOTANY. See p. 415.
5. ZOOLOGY. See p. 415.

##### SECOND EXAMINATION.

GROUP V. HUMAN ANATOMY. See pp. 416, 417.

GROUP VI. PHYSIOLOGY. See p. 417.

#### B.—IN ENGINEERING SCIENCE.

##### a.—MATHEMATICS.

##### FIRST PAPER—THREE HOURS.

1. Define the three curves of the second degree by means of sections of a cone and also by means of the focus and directrix property.

Find their equations specifying exactly the system of coordinates.

2. Define conjugate diameters of an ellipse and prove that the areas of all parallelograms contained by tangents parallel to a pair of conjugate diameters are the same.

3. Differentiate

$$y = \frac{x^{2m}}{(1+x^2)^m}, \quad y = \frac{\log(\cos x)}{x}, \quad y = e^{ax} \cos^m x,$$

and integrate

$$\int \frac{x^3}{(x-1)(x-2)} dx, \quad \int \frac{\log x}{(1+\log x)^2} dx, \quad \int e^{2x} \sin^2 x dx.$$

4. Find the circular sector of greatest area having a given perimeter.

5. Evaluate  $\frac{1}{2x^2} - \frac{\pi}{2x \tan \pi x}$

when  $x = 0$ .



6. Show that the surface of a paraboloid (the surface formed by the revolution about the axis of the parabolic arc extending from the vertex to any point) is half the surface of the circumscribing cylinder.

Hence find the centroid of a parabolic arc.

7. Define curvature of a curve and investigate the formula for the radius of curvature of a plane curve.

Find the equation of a common cycloid and show that the radius of curvature is twice the distance of the point on the curve from the point of contact of the tracing circle with the straight line along which it rolls.

8. Define evolute and involute of a curve, and show *either* that the evolute of a cycloid is a similar cycloid, or that the equation of the evolute of an ellipse

$$a^{\frac{2}{3}}\xi^{\frac{2}{3}} + b^{\frac{2}{3}}\eta^{\frac{2}{3}} = (a^2 - b^2)^{\frac{2}{3}},$$

where  $a$  and  $b$  are the lengths of the semi-axes of the ellipse and the curve is referred to the principal diameters of the ellipse as axes of coordinates.

9. Prove that if  $f(x)$  be a continuous function of  $x$  then

$$f(x+h) = f(x) + hf'(x+\theta h)$$

where  $0 < \theta < 1$

Show clearly (without writing out the proof in detail) how this proposition may be applied to prove Taylor's theorem, and specify the circumstances in which the theorem as you state it is true.

10. Calculate the  $n$ th differential coefficient of  $(\sin^{-1} x)^2$ .

Show by the use of Maclaurin's theorem that

$$(\sin^{-1} x)^2 = 2\left(\frac{x^2}{2} + \frac{2}{3} \frac{x^4}{4} + \frac{2}{3} \cdot \frac{4}{5} \frac{x^6}{6} + \dots\right).$$

11. Find the asymptotes to the curve

$$x^3 - xy^2 + ay^2 - a^2y = 0.$$

12. The path of a projectile which starts with an inclination  $\alpha$  to the horizon is

$$y = x \tan \alpha - \frac{x^2}{4h \cos^2 \alpha}.$$

What is the envelope of all such parabolas? What is the value of the constant  $h$ ?

## SECOND PAPER—THREE HOURS.

1. Find the values of  $a, b, c, d$ , so that

$$\frac{x^3}{(x-1)(x-2)} = ax + b + \frac{c}{x-1} + \frac{d}{x-2}$$

identically. Hence find the general form of the expansion of

$$\frac{x^3}{(x-1)(x-2)}$$

according to ascending and descending powers of  $x$  respectively.

What values of  $x$  make these expressions arithmetically intelligible?

2. A certain number has three digits which are in arithmetical progression. The quotient of the number by the units digit is 251, and the sum of the number and the number formed by reversing the digits is 1110. Find the number.

3. Solve the equations

$$\frac{x-1}{x-2} - \frac{x-2}{x-3} = \frac{x-3}{x-4} - \frac{x-4}{x-5};$$

$$\frac{a}{x-a} + \frac{b}{x-b} = \frac{a^2+b^2}{x(x-a-b)+ab}.$$

4. Discuss the solution of the equation

$$ax^2 + bx + c = 0,$$

showing fully how the nature of the roots depends upon a function of the coefficients  $a$ ,  $b$ ,  $c$ .

Solve the equations

$$(1) \begin{cases} x+y = 1072 \\ x^{\frac{1}{3}} + y^{\frac{1}{3}} = 16 \end{cases}; \quad (2) \begin{cases} x^4 + x^2y^2 + y^4 = 741 \\ x^2 - xy + y^2 = 19 \end{cases}.$$

5. From Glasgow to Carlisle is approximately 100 miles. Two trains start at the same moment, one from Glasgow to Carlisle, the other from Carlisle to Glasgow. They reach their destinations the former 3 hours the latter 1 hour and 20 minutes after they pass each other on the way. Find the speeds of the trains supposing each to run uniformly the whole way without stopping.

6. Find the sum of 7 terms of each of the series

$$(1) 3, -2, \frac{4}{3}, \text{ etc.},$$

$$(2) 3, \frac{1}{3}, -2\frac{1}{3}, \text{ etc.},$$

and of an infinite number of terms if that admits of summation.

7. Explain the algebraic method known as that of *undetermined coefficients*. Apply it to show that the sums to  $n$  terms of the two series

$$1^3 + 3^3 + 5^3 + \dots, \\ 1 \cdot 1^3 + 2 \cdot 3^3 + 3 \cdot 5^3 + \dots$$

are respectively  $n^2(2n^2 - 1)$ ,

$$\frac{n}{30} \{ (2n^2 - 1)(24n^2 + 15n - 8) - 1 \}.$$

8. Define a logarithm and prove the ordinary rules for finding the logarithms of a product and a quotient of two numbers, and the logarithm of any power of a number.

Solve the equations

$$2^{x+y} = \frac{1}{2} 3^{x+y-1} = 6^y$$

having given  $\log_{10} 2 = \cdot 30103$ ,  $\log_{10} 3 = \cdot 47712$ .

9. Assuming the expansion

$$\log(1+x) = x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \dots,$$

find for what values of  $x$  the quantity on the right has a definite arithmetical value.

Deduce the series

$$\log \sqrt{\frac{x+1}{x-1}} = \frac{1}{x} + \frac{1}{3x^3} + \frac{1}{5x^5} + \dots$$

10. Prove that in any triangle

$$\frac{\tan \frac{1}{2}(A-B)}{\tan \frac{1}{2}(A+B)} = \frac{a-b}{a+b}.$$

Hence solve a triangle of which the sides are 25 and 30 and the included angle  $50^\circ$ .

11. A bird is perched on the top of a tree which is 80 feet high; the angle of elevation of the bird is then  $45^\circ$ . It flies off horizontally straight away from the observer, and in one second its angular elevation is reduced to  $30^\circ$ . Find its speed in miles per hour.

12. Prove the addition formula of trigonometry, namely

$$\sin(A+B) = \sin A \cos B + \cos A \sin B,$$

and deduce the three similar and related formulæ.

13. The radii of the circumscribed and inscribed circles of a triangle are respectively  $R$ ,  $r$ , the area of the triangle is  $S$ , and its semi-perimeter is  $s$ . Show that

$$\frac{4S^2}{abc} = \frac{r}{R} s.$$

14. Write down the series for  $\sin x$ ,  $\cos x$  in terms of  $x$ , and show that these are convergent for all values of  $x$ . Hence find the exponential values of  $\sin x$ ,  $\cos x$ , and show that they lead at once to De Moivre's theorem.

## b.—NATURAL PHILOSOPHY.

### FIRST PAPER.

1. A ship is sailing before the wind at a speed of 8 knots and the wind has a speed of 15 knots. Find the pressure in pounds weight per square yard on the surface of a sail spread at right angles to the wind.

[Mass of 1 cubic foot of air .076 lbs.]

2. A motor is driven by a water-jet acting on metal cups. Show that if  $a$  be the area of the jet,  $v$  the velocity of the jet, and  $v_1$  that of the cups, and the water be supposed reduced to rest at the cups, the rate at which work is done on the motor is proportional to  $avv_1(v-v_1)$ . Hence find the speed at which work is done at the maximum rate.

3. A rigid body oscillates about a horizontal axis as a compound pendulum. Find the length of the equivalent simple pendulum and show that it has a minimum length depending on the position of the axis.

Show that for every period greater than the minimum period there are two possible distances of the axis from the centre of inertia.

4. A sphere rolls down an inclined plane: investigate the motion.

Two spheres are 10 cms. in radius and have the same mass, but one is a solid gilded sphere of brass of specific gravity 8.4 and the other a hollow shell of gold of specific gravity 19. Show that they may be distinguished by being rolled together down an inclined plane, and find the distance travelled down the plane by each in 4 seconds, supposing the inclination to be  $45^\circ$ .

5. Show by any process that the attraction of a thin uniform spherical shell of radius  $r$  and surface density  $\rho$  on an external particle of mass unity at distance  $D$  from the centre is  $4\pi k\rho r^2/D^2$ .

Explain carefully the signification of the quantity  $k$ , and show how to find it from the data for the earth :

[Radius  $21 \times 10^6$  feet, mean density 5.5,  $g=32$ , in foot-second units.]

6. Supposing two equal massive particles connected by a thin wire of length equal to the earth's diameter to be placed so that the point midway between them is at the distance  $D$  of the earth from the sun, and along the radius drawn from the sun's centre. Show that the wire will be stretched by a force equal to  $\frac{5}{8}\pi k\rho R^3r/D^3$ , where  $R$  is the sun's radius,  $r$  the earth's and  $\rho$  the sun's mean density.

7. State Kepler's 3rd law of planetary motion and prove the dynamical deduction made by Newton.

Investigate the correction which must be made in the law as stated for an infinitesimal satellite to adapt it to the case of a primary and a satellite (as the Sun and Jupiter) the masses of which are comparable with one another.

8. Give a general dynamical explanation without analysis of the precession of the equinoxes, and illustrate the motion kinematically by the rolling of one cone on another.

Find the vertical angles of the cones and the diameters of the circles of contact, taking the precessional period as 26,000 years.

9. Prove that if a rope be stretched with tension  $T$  round a cylinder of radius  $r$ , the force per unit length with which the rope presses on the cylinder is  $T/r$ .

A rope of mass 4 ounces per foot is made into a ring 3 feet in diameter and caused to rotate about the axis of the ring. If its breaking tension be equal to the weight of 800 lbs. find the maximum number of revolutions it can execute per minute.

10. How can the tension at the surface of separation of two fluids be found experimentally? Show that the surface tension  $T$  is equal to the exhaustion of potential energy which takes place when the area of the surface is diminished by one unit. Hence find the work done in drawing out at constant temperature a cubic millimetre of water to a film  $10^{-4}$  millimetre thick.

Is this the whole energy given to the film in the process? Give reasons for your answer.

11. Define stress and strain and define Young's modulus for a wire or rod.

Find the velocity of sound along a steel wire of cross section 1 sq. millimetre, length 360 cms., which is elongated by 1 cm., by a weight of 50 kilogrammes.

12. Investigate the relation between the longitudinal extension and lateral contraction of a rod or wire to which simple longitudinal stress is applied.

Show that the ratio of the speeds of propagation of waves of simple longitudinal extension along a wire (1) when the wire is laterally free, (2) when it is prevented from changing its lateral dimensions is

$$\sqrt{\frac{27nk}{9k^2 + 15nk + 4n^2}}$$

## SECOND PAPER.

1-12. See p. 383.

13. Find the cost per annum (for an electricity supply meter) of lifting a weight of 28 grammes through a distance of  $5\frac{1}{2}$  centimetres, once per 14 seconds, with electricity at 7d. per Board of Trade unit (1 kilowatt-hour).

14. Explain the two fundamental laws of the dynamical theory of heat, and the foundation on which our knowledge of these rests.

15. Sixty cubic decimetres of air at  $0^{\circ}\text{C}.$ , and under a pressure of 1033 grammes weight per square centimetre, are adiabatically compressed into 30 cubic decimetres. Find the work done.

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 c.—GEOLOGY.

1. Mention the phenomena, other than those of crater explosion, which may accompany a volcanic outburst.

2. Describe the modes in which the continuity of strata is affected.

3. Enumerate the successive events and periods from the close of the Miocene to the close of the Land Ice period.

4. Sketch generally the position of the great mountain chains, and state their relation (if you think they have any) to the phenomena of secular cooling.

5. Tell all you know of the specimens given you.

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 d.—ENGINEERING.

## FIRST PAPER.—Two Hours.

1. Explain the meanings you attach to the following terms:—Magnetite, hæmatite pig, mottled iron, case-hardening, chilled castings.

2. Give a short account of the manufacture of Siemens-Martin steel plates, commencing from the materials as they reach the steel works.

3. What precautions should be taken in the working of mild steel plates in respect to shearing, punching, and working the plates hot or cold?

4. Give a short account of the properties and uses of copper and zinc.

5. Treat briefly of the decay and preservation of timber.

6. State the principal conditions affecting the decay of building stones, and explain in outline some of the principal methods in use for the preservation of stones in buildings.

7. Explain how small objects required in large numbers are most cheaply moulded and cast.

8. Explain the reasons for avoiding sharp re-entrant angles, (a) in the case of forgings, (b) in the case of castings.

## SECOND PAPER.—Three Hours.

*Each candidate may select either A or B.*

## A.

1. State the adjustments of a theodolite, distinguishing between the two groups, and explaining how each of the permanent adjustments may be accomplished in one form of theodolite.

2. In respect to levelling describe the effects of (a) curvature of the earth, and (b) atmospheric refraction, and explain how these should be allowed for or when possible avoided.

3. Sketch a Dumpy or Gravatt's level, naming and explaining the uses of the principal optical and mechanical details.

4. Describe either (a) the box sextant or (b) the prismatic compass, and explain how and for what purposes the instrument you describe may be used.

5. Explain how a chain line may be set out and measured in each of the following cases—(a) the chain line crossing obliquely a river of about two chains in width, (b) the line is to extend between two stations on opposite sides of a hill so situated that there is no point from which both stations are visible.

Explain in some detail how you might determine the distance between station points situated respectively in University Avenue, at the main gate-way to the University, and at the Dumbarton Road entrance to the University grounds.

6. Enumerate some of the principal considerations which should influence an engineer in the selection of the route and levels for an intended railway between two given termini.

7. Two straight lines of railway are to be connected by a curve of 50 chains' radius. The pegs setting out the line of railway are not required to be equally spaced along the straight part and the curve. The point of intersection of the straight tangents is accessible, and these lines contain an angle of  $123^{\circ} 42'$ . Give an account of the process of setting out the curve, stating the necessary formulas. You need not work out all the calculations however.

8. State the advantages of the mean areas method for determining the volume of railway earth works, and determine the volume of the cutting represented on the accompanying sheet, and state in what way the quantity you calculate will differ from the true volume of the cutting.

## B.

1. An ordinary slide valve is required for the high pressure cylinder of an engine—cylinder 24 inches diam., stroke 3 feet, revolutions per minute 150, cut off about 0.65 of the stroke, lead  $\frac{1}{4}$  inch. Select suitable points of release and compression, assuming clearance 10% and steam pressure 120 lbs. absolute, exhaust pressure 60 lbs. absolute, connecting rod length 5 cranks. Explain the process of designing such a valve, with or without taking account of connecting rod length.

2. State the first and second laws of thermodynamics. Give quantitative statements with regard to the first law, and discuss the foundations of the second law.

3. State the laws connecting the pressure, volume, and temperature of a given quantity of gas. What do you understand by the expression a *perfect gas*?

4. In connection with the theory of perfect heat engines, explain what is meant by absolute temperature. Investigate the efficiency of an ideal steam engine working with complete isothermal condensation on the return stroke.



5. Sketch indicator diagrams showing the following defects, showing the forms of normal diagrams by dotted lines:—(a) too late admission, (b) too small opening of valve to steam, (c) too early release, (d) insufficient compression for a given amount of clearance.

6. How should a supply of coal for use in a boiler furnace be sampled, and its calorific value ascertained by calculation and by experiment? Discuss one of these methods somewhat in detail.

7. State the principal advantages of Corliss valves as compared with ordinary slide valves in respect to economy in the use of steam.

8. Explain how you would attach and drive an indicator in the case of either a horizontal stationary engine or an inverted cylinder marine engine, explaining the precautions to be taken in driving the indicator drum. Explain any one method of determining the mean effective pressure from an indicator diagram. Supposing all reasonable precautions to have been taken, and that the horse power works out to 153·72, how far would you consider the figure reliable?

9. The *total heat from water at 32° F. of dry saturated steam at a pressure of 115·3 lbs. p. sq. inch absolute is 915,000 ft. lb. of heat, its volume per lb. is 3·8 cubic feet, and its temperature 338° F.* Explain the meanings of the terms in italics. Of what three quantities is the total heat the sum? Find approximately each of these three quantities for the case given. Sketch a diagram showing roughly the variations of these three quantities for variations of pressure.

### THIRD PAPER.—THREE HOURS.

1. For the example shown on the accompanying sheet of a shaft driven by means of a belt, the two stretches of which are parallel to each other, find the greatest unital stress of push or pull in the material of the shaft and the simple bending moment which would stress the shaft with the same severity. Prove the formula you use, assuming any established formulas for simple torsion and simple bending.

2. Draw the diagram of shear and bending moment for the beam shown on the accompanying sheet, and find the greatest intensity of shear stress.

3. Describe how you would determine the stresses in the loaded redundant frame shown on the accompanying sheet, explaining and justifying the assumptions involved.

4. Distinguish between “impulse” and “reaction” turbines. Sketch in outline one example of each, and explain the reasons for the form of wheel blades which you show, with special reference to the direction of the tangents at the two ends of the blade.

5. Prove from first principles that the area of a jet of water issuing from a thin cylindrical re-entrant tube has a diameter at a section near the inner end of the tube of approximately 0·7 of the external diameter of the tube.

6. Show how Gordon’s formula for the strength of columns is arrived at.

7. Describe two distinct modes of flow of water in pipes, and investigate a formula for the flow of water in a pipe at velocities under the lower critical velocity.

8. Determine the unit stress of pull across a spiral section at  $45^\circ$ , of a cylindrical shell 5 ft. in diameter and  $\frac{3}{8}$  inch thick, subject to an internal pressure of 100 lbs. per sq. inch, considering the length as indefinitely great.

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### e.—DRAWING, ETC.—THREE HOURS.

1. Describe in words how you would solve the following problems, helping your explanations by the use of sketches where necessary :—

- (a) To draw a straight line to make  $50^\circ$  with the horizontal plane of projection and  $30^\circ$  with the vertical plane of projection.
- (b) To draw the projections of the common section of two planes when both planes are perpendicular to the vertical plane of projection.
- (c) To determine the projections of a line which shall contain a given point and be perpendicular to a given plane.

2. Determine the horizontal projection of an angle of  $60^\circ$  when the lines containing it make angles of  $30^\circ$  and  $45^\circ$  respectively with the horizontal plane.

3. Find the traces of a plane which shall contain a given point and make given angles with the planes of projection. Assume data.

4. Find the intersection of the cone with the plane  $LMN$ , showing both branches. Draw the asymptotes to the curve. Show the curve with asymptotes in true form.

5. Find the intersection in plan and elevation of the sphere and cone given in the accompanying diagram.

Draw the development of the cone.

You need only find a few points which would show the general form of the curve.

6. A beam (whose weight may be neglected) is 12 ft. long; at distances of 3,  $5\frac{1}{2}$ , and 8 ft. from one extremity weights 5, 1, and 7 lbs. are suspended. Find by construction the point about which the beam will balance.

7. Find the path in which the point  $p$  moves while the crank  $c$  makes one complete revolution.

Only a few points showing the general form of the curve need be found.

8. Draw in isometric projection the bracket given in the accompanying sheet.

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### f.—NAVAL ARCHITECTURE.

#### STRENGTH.—THREE HOURS.

1. Describe generally the operation of finding the relative distribution of weight and buoyancy in a ship floating in still water.

2. What are the conditions which have to be fulfilled in a load curve in order that it may accurately represent the resultant forces due to the unequal distribution of weight and buoyancy?

3. Prove that the curve of shearing forces is the integral of the curve

of loads; and that the curve of bending moments is the integral of the curve of shearing forces.

4. State the assumptions upon which the formulæ  $\frac{p}{y} = \frac{M}{I} = \frac{E}{R}$  are based. Prove these formulæ.

5. Obtain a formula for the shearing stress at any point in the cross section of a beam subjected to a bending moment varying from point to point upon a beam.

6. Describe a method of recording the results of bending moment calculations so as to make them directly comparable with each other independently of the size of ship.

7. How is the tensile stress upon a ship determined when you have the bending moment curve and the midship section scantling drawing?

8. Describe how you would find the curve of supporting forces in the case of a ship instantaneously poised upon the crest of a trochoidal wave, when the effect of variation of fluid pressure due to the wave motion is taken account of.

9. What is the difference in bending moment when the fluid pressure due to wave motion is taken account of, as compared with when it is neglected? How is this difference affected by draught of ship?

10. Describe generally the effect of the heave of the sea upon the bending moment upon a ship due to the passage by the ship of a series of waves.

11. Describe how you would carry out the drawing and calculation work necessary to determine the bending moment upon a ship when she is placed obliquely across a wave, and is at a definite angle of heel.

12. Describe how you would find the diameter of a rudder head for a given speed of ship and area of rudder.

#### STABILITY AND ROLLING.—THREE HOURS.

1. Obtain a formula giving the righting arm in terms of the displacement, the position of centre of gravity of a ship, and the moment of the wedges of emersion and submersion.

2. From the formula obtained in Question 1, discuss the relative effect of light and deep draught upon the righting arm.

3. What is a cross curve of stability? Describe any method of obtaining a cross curve at a given angle of heel.

4. Upon what formulæ is the method of obtaining stability by polar integration based? Show how these formulæ are applied. Prove the statement that "like signs give minus" in applying the correction for layer in polar integration.

5. Prove that the value of  $ZM$  is the differential of  $GZ$  for a given position of  $G$ . Show how you would determine the metacentric evolute from this consideration.

6. Discuss the application of the integrator to finding the volume and moment of a solid, with especial reference to the scales of the curves delineating the solid.

7. Show that positions of stable and unstable equilibrium in a floating body occur alternately. Discuss the apparent exceptions to this rule.

8. Obtain an expression for the radius of curvature of the surface of flotation in terms of the displacement and the moment of inertia of the water plane.

At what point should a weight be added in order that the value of the product of displacement, and the distance between the centre of gravity and the metacentre of a floating body may be unaltered? Prove this statement.

9. What point in a body floating freely may be considered as the instantaneous centre of oscillation when there is no resistance?

10. Deduce the equation of unresisted rolling, and from it determine the period of oscillation.

11. Show that for isochronous rolling the form must be such that the locus of the centre of buoyancy must be the involute of the involute of a circle.

12. What is a curve of extinction in resisted rolling? What is the form of the expression which represents resistance to rolling? How can the constants in the expression be determined?

13. Give the periods of a double roll for any ships that you know.

#### CALCULATIONS.—THREE HOURS.

1. If  $y_1, y_2, y_3$  be three equidistant ordinates a distance  $h$  apart on a curve, prove that  $(5y_1 + 8y_2 + y_3) \frac{h}{12}$  equals the area of the curve between the base and the ordinates  $y_1$  and  $y_3$ . State the assumption on which this proof is based.

If  $y_1, y_2, y_3 \dots y_n$  be a series of equidistant ordinates  $h$  apart, show that  $\frac{h}{12} \{5y_1 + 13y_2 + 7y_{n-1} - y_n\} + y_3 + y_4 + \dots y_{n-2}$  is equal approximately to the area of the curve.

2. A solid of revolution is formed by rotating the L shaped figure  $ABC$  about the axis  $DE$ . Apply Guldinus' principle to find its volume.

3. From the accompanying half-breadth plan determine the displacement and position of  $CB$  horizontally and vertically. Five ordinates in the length will be sufficient.

4. Define the following terms: (a) Tons per inch immersion, (b) Tons to trim ship one inch, (c) Prismatic coefficient. Prove that the prismatic coefficient multiplied by the midship section coefficient gives the block coefficient.

5. Find the longitudinal metacentre and tons to trim ship one inch in a vessel with the following water-line: (half-breadths) 12, 4.6, 8.3, 10.9, 12.5, 13.8, 14.2, 14.4, 14.2, 14, 13.5, 12.5, 10.8, 7, 2.5. (Ordinates 20 feet apart.) Assume that the C.B. and C.G. coincide, and that the displacement is 1570 tons, salt water.

6. Describe the inclining experiment, and state what precautions must be taken in actual practice.

7. A ship is loaded with a homogeneous cargo whose density is 75 cubic feet to the ton. The holds have a capacity of 150,000 cubic feet, with a centre of volume 20 feet above the keel. The bunkers have 1000 tons of coal 16 feet above the keel. The light displacement

including stores is 6000 tons, and the light c.g. is 21 feet above the keel. Find the height of the metacentre in order that the vessel may have a G.M. of 2 feet.

8. In the vessel described in the previous question, find the G.M. supposing the holds to have a cargo of same weight, but with its c.g. 15 feet above the keel.

9. Explain how you would find the statical tipping moment which may come upon a ship at launching. How much statical tipping moment, in relation to length and displacement, has been found possible to launch with?

10. Suppose a box-shaped vessel, 100 feet long, 20 feet wide, to be launched on straight ways, at a declivity of  $\frac{1\frac{1}{2}}{10}$  in. to the foot. The end of the ways is 30 feet from the stern post, and the water on the end of the ways is 1 foot. Draw a tipping moment curve assuming the weight to be 200 tons.

11. How would you calculate the effect upon the trim or stability of a ship, due to having one compartment bilged?

#### WAVES AND RESISTANCE.—THREE HOURS.

1. State the conditions necessary for continuous wave motion in water.  
2. Prove that particles of a perfect fluid in a free surface, which in succession take up a uniform circular orbital motion in vertical planes, will form themselves into a trochoid.

3. \* Prove the formula:  $dp = w \cdot dY_0$ .

4. \* If  $\phi$  be the slope of the wave whose whole period is  $T$ , show that

$$\phi = \frac{r_0}{R} \sin \frac{2\pi t}{T}.$$

Deduce the maximum slope.

5. State Scott Russell's theory of resistance, giving the formula and the method of obtaining a set of lines of a ship having minimum resistance for a given speed, midship section and length.

6. Suppose Scott Russell's theory of best form to be true for sectional areas instead of ordinates; how would you fix the dimensions of a vessel for a given speed, draught, and displacement?

7. How would you obtain Rankine's coefficient of augmentation of a set of lines?

8. Describe Froude's experiments upon surface friction of planes of various lengths and roughnesses, and state generally the results of these experiments.

9. If a rough plane be moving through water with a velocity  $V$ , and the velocity of the particles next the plane be  $V$ , but become zero at a varying distance  $H$  from the plane, the velocity varying as the square of ( $H$  minus the distance from the side) deduce an expression for the value of  $H$  at any given distance from the advancing end of the plane.

10. Prove Froude's law of comparison, and apply it to find the I.H.P. of a vessel 300 feet long running at a speed of 20 knots per hour, from that of a vessel 75 feet long running at 10 knots per hour, assuming

\* These questions may be omitted by students who have not taken this year's lectures.

the forms to be similar and the efficiencies the same. The resistance per square foot of planes 300 feet and 75 feet long to be taken at 23 pounds and 25 pounds respectively, at 6 knots per hour.

11. What is a propulsive coefficient? Give average and maximum values of it for different kinds of steamers. State how the difference between the E. H. P. and the I. H. P. is accounted for in a modern steamer.

12. Show how the results of trial trips should be recorded, and show how from these results you may deduce curves of I. H. P. for varying displacement and constant speed.

13. † Explain how the principle of momentum is applied to find the thrust of a jet propeller. Deduce the theoretical efficiency of such a propeller.

14. † What is the theoretical maximum efficiency of an ordinary screw propeller as deduced by Froude?

### MARINE ENGINEERING.—THREE HOURS.

*No more than TEN questions should be attempted.*

1. Make an outline sketch of a single-ended marine boiler of the return tubular type. What is the usual proportion of heating surface to grate in such a boiler? and the relation of heating surface to weight of boiler and water?

2. Sketch a corrugated furnace, showing its connection to the combustion chamber and to the boiler end. How is the size of the furnace affected, other things remaining the same, by making it so that it may be removed without moving any plate in the boiler or cutting the furnace to pieces?

3. What is the temperature of a tube plate in a marine boiler when under a temperature of  $2000^{\circ}$  to  $2500^{\circ}$  in the combustion chamber? How is this temperature affected by grease on the tube plate?

4. How much evaporation per square foot of heating surface per hour would you expect from the tubes of a marine boiler under natural draught? How is this amount affected by air pressure when under forced draught? What amount of water per square foot of heating surface would you expect to be evaporated from a suction draught arrangement when burning thirty-three pounds of coal per square foot of grate per hour? and what number of pounds of water per pound of coal would be evaporated from and at  $212^{\circ}$ ?

5. Given the weight of boiler and water per square foot of heating surface, the amount of coal burnt per square foot of grate, and the water evaporated per pound of coal; deduce the weight of boiler and water per I. H. P. if 15 pounds of water are necessary to develop one I. H. P. in an ordinary single-ended marine boiler.

6. Give the approximate temperatures in different parts of a boiler tube when worked under natural draught. What is the advantage of using a serve tube?

7. What ratio of area of L. P. to H. P. for 160 pounds boiler pressure is adopted when economy of weight is of the first importance? What mean effective pressure referred to L. P. cylinder would you expect?

† These questions may be omitted by students who have taken this year's lectures.



8. In what way does an engine produce vibrations in a vessel? Suppose the moving weights in a triple-expansion 3-crank engine to be in the ratio of 1 : '82 : '73; show that the L.P. engine should be distant from a node about five times the distance between the L.P. and the next cylinder.

9. Find the I.H.P. of an engine whose cylinders are 23, 36, and 54 inches diameter, and 33 inches stroke; the mean pressures being 64, 33, and 16 pounds per square inch respectively, and the revolutions 150 per minute. What is the mean effective pressure referred to L.P. cylinder?

10. Find the diameter of the crank shaft of the engine described in Question 9. What ratio of maximum to mean twisting moment would you expect in this case?

11. How would you determine the condensing surface for a marine engine? Describe by sketch a surface condenser; and state what connections are usually made to it.

12. Sketch a conical cast-steel piston with the attachment to the piston rod and the packing at the edge of the piston.

13. Find the diameter of the main steam pipe of the engine in Question 9.

14. Describe how a propeller is swept up in the foundry. Sketch the boss of a propeller.

15. Describe Brown's hydraulic starting gear and the emergency governor attached to it.

16. Sketch an ordinary link motion.

17. How would you determine the size of feed pump necessary for a marine engine?

18. Sketch a feed water filter and state what is the object of it.

## IV.—FOR DEGREES IN MEDICINE AND SURGERY.

### I.—PRELIMINARY EXAMINATION.

#### ENGLISH.

##### FIRST PAPER—Two Hours.

*FIVE questions, neither more or less, must be attempted. Two of these must be questions 1 and 2.*

1. Write an essay, about two pages long, on (a) the Character of Shylock, or (b) Monmouth's Rebellion.

2. Paraphrase the following lines:—

In terms of choice I am not solely led  
By nice direction of a maiden's eyes :  
Besides, the lottery of my destiny  
Bars me the right of voluntary choosing :  
But, if my father had not scanted me,  
And hedged me by his wit, to yield myself

His wife, who wins me by that means I told you,  
 Yourself, renowned prince, then stood as fair  
 As any comer I have looked on yet  
 For my affection.

3. Analyze the following passage, and parse fully the words in italics:—

The crow *doth sing* as sweetly as the *lark*  
 When *neither* is attended ; and, I think,  
 The nightingale, if *she* should sing by day,  
 When *every* goose is cackling, would be thought  
*No better* a musician *than* the wren.

4. Give the derivations of eight of the following words:—suitor, merchant, amity, oracle, treason, sceptre, melancholy, authority, prince, nightingale, musician, voluntary.

5. Construct sentences to show that the following words may represent two or more parts of speech:—still, till, tender, that, but, diet, list, toll, court.

6. Criticise, and make any necessary corrections in, the following sentences:—

- (a) He met the very two individuals whom he thought were far away.
- (b) His kind and even temper endear him to all that know him.
- (c) Not having seen them for some years, her arrival occasioned considerable excitement.
- (d) The first effect would have been to have destroyed the republic.
- (e) Were he still disposed to go there, my purse shall be open to him.

## SECOND PAPER—Two Hours.

*Not more than EIGHT questions to be attempted, and of these not more than two from each section.*

### A.

1. Give a brief sketch of the life of Spenser, or Milton, or Dryden, or Pope, or Scott; and an account of one of the leading poems of the author you may select.

2. What are the characteristics of the literature of the eighteenth century? How are these represented in the prose of Addison and the poetry of Cowper?

3. Who wrote the *Confessio Amantis*, *The Knight's Tale*, *The King's Quhair*, *Tambrulane*, *Hudibras*, *Gulliver's Travels*, *The Traveller*, *Adonais*, *Childe Harold*? Describe briefly any one of these works, and state what you know about the author.

4. Sketch one of the leading characters portrayed by Thackeray, or Dickens, or Scott, or George Eliot.

### B.

1. Describe (a) the scene in *Kenilworth* in which Elizabeth undertakes the reconciliation of Sussex and Leicester; or (b) the journey of Tressilian from Cumnor to Lildcote Hall.

2. Sketch the character of Antonio or of Leicester.

3. Describe the Trial Scene in the *Merchant of Venice*.

4. Annotate the following lines :—

- (a) And see my wealthy Andrew dock'd in sand,  
Vailing her high-top lower than her ribs,  
To kiss her burial.
- (b) The patch is kind enough, but a huge feeder.
- (c) A second Daniel, a Daniel, Jew !  
Now, infidel, I have thee on the hip.
- (d) Look, how the floor of heaven  
Is thick inlaid with patines of bright gold :  
There's not the smallest orb, which thou behold'st,  
But in his motion like an angel sings,  
Still quiring to the young-ey'd cherubins.

### C.

1. Describe briefly the life and character of Regent Moray, or James I., or Charles I., or Laud, or Strafford, or Cromwell, or Monk.

2. Describe, and explain the importance of, any *two* of the following :—The Battle of Langside, The Gowrie Conspiracy, The Gunpowder Plot, The Petition of Right, The Solemn League and Covenant, The Battle of Dunbar, The Battle of Worcester, The Navigation Act, The Secret Treaty of Dover, The Popish Plot, The Trial of the Seven Bishops, The Act of Union.

3. With what difficulties did William III. meet (1) in England, (2) in Ireland, (3) on the Continent ; and how far was he successful in overcoming them ?

4. Who were the Pilgrim Fathers, the Presbyterians, the Independents, the Covenanters, and the Jacobites ?

5. Explain the following terms :—Monopoly, Franchise, The Cabinet, The Speaker, The Executive, Customs and Excise, Federal Government.

### D.

1. Sketch a map of England or India, inserting the principal rivers and mountain ranges, and six of the chief towns.

2. In what counties of Great Britain are coal, iron, lead, tin, salt, slate, and granite chiefly found ?

3. Describe the river system of Russia, or of Africa, or of the United States, or of South America.

4. Describe precisely the positions of eight of the following :—Plymouth, Hull, Wick, Stranraer, Dundalk, Gothenburg, Utrecht, Liège, Besançon, Barcelona, Trieste, Aleppo, Tobolsk, Pittsburg, Allahabad, Breslau.

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LATIN, see Lower Grade at pp. 351, 353, 354.

GREEK, see Lower Grade at pp. 355, 357.

MATHEMATICS, see Lower Grade at p. 359.

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## FRENCH.

1. Translate into French :—

(a) (1) He has lost all the money he had ; (2) the town in which we live has only five thousand inhabitants ; (3) I wish you would not talk so loud ; (4) when I saw him last, he did not look at all well.

(b) "What should I do?" said he in a quiet way, after a moment's reflection. "Really I am not sure; it seems to me that you should tell me what you wish me to do." "What!" cried his mother-in-law; "you are a man, and you do not know how to answer such a question? I tell you of an impardonable insult; of a question of life and death, and you ask me what is to be done. You cannot mean it, or rather you cannot have understood me." "Perhaps not," said he, with the greatest coolness. "If you would speak a little more clearly, perhaps I should be able to understand you. We Bretons are capital fellows, as you were kind enough just now to remark; but we are accused of having rather thick heads, and in this respect I am strictly true to my country."

2. Give masc. sing. of—turques, servantes, rousses, louves, blanches, sèches; and the feminine of—frais, jumeau, cheval, berger, menteur, doux.

3. Write the plural of—arc-en-ciel, bleu, monsieur, grand'mère, bijou, travail.

4. Write in full—present subjunctive of *avoir*; present indicative of *mener*; future of *savoir*, interrogatively.

Give 3rd person singular and 1st plural of present indicative of—*s'asseoir*, *devoir*, *punir*, *craindre*, *aller*, *tenir*.

5. Give the adverbs corresponding to—lent, poli, prudent, aveugle, franc, mauvais.

6. Translate into French :—

(a) That book that I lent him is my brother's.

(b) Of whom are you speaking?

(c) They set out on Saturday.

(d) I have some good apples but no pears.

(e) He slept well last night.

(f) How glad I shall be when I have finished.

7. Translate into English :—

(a) Je revenais à petits pas, la tête un peu fatiguée, mais le cœur content; je me reposais agréablement au retour, en me livrant à l'impression des objets, mais sans penser, sans imaginer, sans rien faire autre chose que sentir le calme et le bonheur de ma situation. Je trouvais mon couvert mis sur la terrasse. Je soupais de grand appétit dans mon petit domestique; nulle image de servitude et de dépendance ne troublait la bienveillance qui nous unissait tous. Mon chien lui-même était mon ami, non mon esclave; nous avions toujours la même volonté, mais jamais il ne m'a obéi. Ma gaieté durant toute la soirée témoignait que j'avais vécu seul tout le jour; j'étais bien différent quand j'avais vu de la compagnie; j'étais rarement content des autres et jamais de moi. Le soir j'étais grondeur et taciturne: cette remarque est de ma gouvernante; et depuis qu'elle me l'a dit, je l'ai toujours trouvée juste en m'observant. Enfin, après avoir fait encore quelques tours dans mon jardin, ou chanté quelque air sur mon épinette, je trouvais dans mon lit un repos de corps et d'âme cent fois plus doux que le sommeil même.

ROUSSEAU.

(b) La barque est petite et la mer immense,  
La vague nous jette au ciel en courroux,  
Le ciel nous renvoie au flot en démenée;  
Près du mât rompu prions à genoux!

De nous à la tombe il n'est qu'une planche :  
 Peut-être ce soir, dans un lit amer,  
 Sous un froid linceul, fait d'écume blanche,  
 Irons-nous dormir, veillés par l'éclair !  
 Fleur du paradis, sainte Notre-Dame,  
 Si bonne aux marins en péril de mort,  
 Apaise le vent, fais taire la lame,  
 Et pousse du doigt notre esquif au port.

GAUTIER.

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## GERMAN.

*No paper will pass which does not satisfy the Examiners in translation from English into German, or which contains gross grammatical blunders.*

1. Give the gender and nominative plural of—Auge, Kraft, Blatt, Reichtum, Ochs, and Handschuh.

2. Decline in the singular the German for—(a) a small table; (b) many an old horse; and (c) harder iron; and in the plural (d) those young people.

3. Give the superlative of—dumm, ruhig, klar, nahe, rauh, hoch.

4. What is the German for—2872; the 101st; of three kinds; two months and a half; some fruit; what kind of books; for your sake; nothing better; something else; a friend of ours?

5. Correct the following, giving your reasons in each case:—

(a) Ich setze mich vor dem Ofen.

(b) Ich sah ihn kommand.

(c) Das Kind hat eingeschlafen.

(d) Wo gehen Sie?

(e) Kommen Sie hinauf.

(f) Er hat uns widergesprochen.

6. Give the second person singular present and imperfect indicative, and the perfect participle of—heissen, fressen, halten, and betrügen.

7. Translate into English:—

Friedrich der Grosse hatte einige Wand-Teppiche bestellt. Da die Ausführung des Auftrags auf sich warten liess, so fragte er nach dem Grunde. "Eure Majestät," sagte der Geschäftsmann, "ich bin eben damit beschäftigt, die Zimmer des Hauses zu tapezieren, das sich Euer Schatzmeister hat bauen lassen, und er drängt mich ausserordentlich." Der König, den die Ausgaben dieses Beamten überraschten, beschloss die Sache näher zu untersuchen. Er erkundigte sich, wann sein Schatzmeister in seinem neuen Hause zu treffen sein würde. Da dasselbe in nächster Nähe seines eigenen Schlosses war, so begab sich der König hin auf seinem Wege zur Parade und betrat das Haus als der Eigentümer es am wenigsten erwartete. Er liess sich alles zeigen, fand alles äusserst schön und lobte den Geschmack des Besitzers. Als sie zu dem Schlafzimmer gekommen, war der König von der reichen Ausstattung desselben so betroffen, dass er sich aufs lebhaftigste erkundigte:

“Wer schläft denn in diesem prachtvollen Zimmer?” Der Schatzmeister antwortete äusserst verlegen und mit leiser Stimme: “Ich, Eure Majestät.” Der König, ohne ein Wort zu erwidern, verliess das Zimmer. An der Thüre traf er den Unternehmer und erfuhr von ihm, dass das Schlafzimmer allein sechzig tausend Thaler gekostet. Friedrich liess den Schatzmeister kommen. “Woher kommt Ihnen all dieses Geld?” “Aus der Kasse Eurer Majestät,” antwortete er, indem er sich zu seinen Füssen warf, “aber ich werde es zurückerstatten.” Unfähig seine Geduld länger zu bezwingen, gab ihm der König mehrere Stockschläge und sagte ihm, indem er das Haus verliess: “Ich hätte Dir vergeben können, Schurke, ohne das prachtvolle Zimmer, in welchem Du die Unverschämtheit gehabt hast, zu schlafen.” Der Schatzmeister büsste seine Prachtliebe mit mehreren Jahren Gefängnisstrafe.

8. Translate into German :—

(a) As we went out one day, Ann and myself, we met a girl about eight years of age. She looked pale and was very poor. She told us that her name was Jane, and that she lived in the small hut near the forest. We asked why she was so poor, and why her father did not work to get her food. Tears came into her eyes, and she said that her father had been ill for some time and was now dead, and that her mother was too weak to work. She had not eaten anything all the day, because there was no food in the house. Ann wept when she heard all this, and we took her home to her mother. Mother was very kind to poor Jane, and went with her and took care of her mother. We were very glad that we had met her, and we were glad to help her.

- (b) (1) What has become of them?  
 (2) I could not help it.  
 (3) He was a baker by trade.  
 (4) I was very sorry for him and for her too.  
 (5) Beware of touching that parcel.

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## II. PROFESSIONAL EXAMINATIONS.

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### I.—FIRST PROFESSIONAL EXAMINATION.

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#### CHEMISTRY—Two Hours.

9th October, 1893.

1. In a given solution by what tests would you detect iron in presence of copper, sugar along with common salt, arsenic in presence of antimony, aluminium in presence of zinc, a soluble phosphate in presence of a soluble oxalate, potassium chromate in presence of chromium sulphate, a citrate along with a tartrate, peroxide of hydrogen in water?



2. What differences, if any, can be drawn between fermentation and putrefaction?

3. State very shortly the grounds for considering the chemical elements to be simple, and what evidence there is that they may not be so.

4. To what temperature Centigrade would 30 litres of hydrogen, measured at 70° Fahr., require to be reduced to occupy 20 litres?

5. What volume of oxygen and hydrogen respectively would be evolved by the electrolysis of a cubic centimetre of water at 4° Cent.?

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## BOTANY—ONE HOUR AND A HALF.

9th October, 1893.

*Only FOUR to be attempted for First Professional. All FIVE to be answered for the First B.Sc.*

1. What are sieve-tubes? where do they occur? Describe briefly their mature structure. What is their function?

2. Give a short account of the process of assimilation, and of the conditions under which it takes place.

3. Give a short description of the chief types of fruit of the Rosaceæ, explaining the morphology of each.

4. Give a detailed description, with drawings, of the antheridium and archegonium of a Fern. Explain how fertilisation takes place. Compare the archegonium with that of Pinus.

5. Describe the mode of life and structure of the *Æcidium* stage of *Puccinia graminis*.

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## ZOOLOGY—ONE HOUR AND A HALF.

9th October, 1893.

*M.B. Candidates are required to answer only FOUR of the following questions. B.Sc. Candidates are expected to answer all. The answers to be illustrated by Drawings.*

1. Compare an Annelid and a Bird as regards (a) segmentation of the body, (b) nervous system, (c) locomotive organs.

2. Describe the circulation of Birds, and compare it with that of Amphibians.

3. What is complete metamorphosis? Illustrate it by the history of a Lepidopterous Insect.

4. Describe the plan of a Gasteropod Mollusc, and more particularly the respiratory organs in that group.

5. Compare the hard structures in the digestive organs of Insects, Crustaceans, and Birds.

6. What is a medusiform zóoid? What is its plan? What its relation to the fixed forms of Hydrozoa?

## PHYSICS—ONE HOUR AND A HALF.

10th October, 1893.

*Only FOUR questions to be answered.*

1. What do you understand by *work* and *energy*? Illustrate your explanation by examples.

An engine raises 6 tons of coal per hour to the surface from the bottom of a pit 110 fathoms deep. Supposing the engine to work half the time, and to spend 20 per cent. of its whole power in overcoming resistances, find its horse-power.

2. Enunciate the principle of Archimedes, and show how it gives a means of determining specific gravities.

A wooden ball floats on the surface of water in a beaker under the receiver of an air-pump. Explain, using Archimedes' principle, how the degree of immersion of the ball is altered when the air is exhausted from the receiver.

3. What is measured (1) by a thermometer, (2) by a calorimeter? Give illustrations of the distinction between the two quantities.

Describe some form of calorimeter, and explain how it is used.

4. Enumerate some of the methods which have been employed for the determination of the velocity of light, and describe briefly one of them.

The velocity of light in air being known how can it be found for water [Index of refraction of water  $\frac{4}{3}$ ]. What bearing has your result on the emission theory of propagation of light?

5. Describe experiments with a Leyden jar, having removable coatings, and give any conclusions you can draw from their results.

Explain how it is possible to give the interior coating of the jar a much greater charge of electricity when it is in position in the jar than when it is hung up by itself at a distance from other conductors.

6. Describe Oersted's experiment, and hence explain the action of a galvanometer. What general relation between electricity and magnetism was deduced from Oersted's experiment?

A straight vertical wire in which a current is flowing passes at right angles through a hole in a card. Fine iron filings are sprinkled on the card, which is then tapped: how do the filings arrange themselves? Hence indicate the exact nature of the magnetic field due to the current.

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## II.—SECOND PROFESSIONAL EXAMINATION.

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### DESCRIPTIVE ANATOMY.

10th October, 1893.

1. Describe the attachments and actions of the splenius, complexus, and sterno-cleido-mastoid muscles.

2. Describe the ligaments, synovial membrane, and movements of the ankle joint.

3. Describe the appearance and structure of the ureter, and its connection with the renal substance, and with the urinary bladder.

4. Describe the appearance, form, and structure of the crystalline lens.

## PHYSIOLOGY—TWO HOURS.

10th October, 1893.

1. What are the features of a normal pulse curve? What is the explanation of each part of the curve, and how may the parts be modified by varying conditions of the circulation?
2. Describe fully, and illustrate by diagrams, the changes taking place in the various diameters of the thorax as it passes from expiration to inspiration. Explain in detail how each change is brought about. What is meant by "Ordinary" and what by "Forced" Respiration? Describe generally the mode of action of the muscles involved in each.
3. What is lymph? Give a short account of its chemical composition, the process by which it is formed, and the mechanism of its circulation.
4. If the left occipital lobe of a man is destroyed, what disturbances of vision will be produced? Explain these, illustrating your answer by diagrams.

## III.—THIRD PROFESSIONAL EXAMINATION.

## REGIONAL ANATOMY.

11th October, 1893.

1. Describe the parts seen in a transverse section of the leg, midway between the ankle and the knee, mentioning the position of each structure at its place of section.
2. Describe the relations and vascular supply of the pancreas.
3. Describe the distribution of nerves and vessels to the eyeball and to its muscles.

## MATERIA MEDICA AND THERAPEUTICS.

## ONE HOUR AND A HALF.

11th October, 1893.

THREE questions to be answered.

1. In prescribing (a) Strychnine, (b) Arsenic, in medicinal doses for disease, state what symptoms would indicate the beginning of their physiological action on the system.
2. Mention four substances which may be used as emetics. State how each should be administered, its dose, and how long it takes to act. What conditions hinder or prevent the action of emetics?
3. What purgatives are most suitable for use in habitual constipation? State why they are so, and give a short account of their modes of action. Write two prescriptions containing such purgatives (*in unabbreviated Latin; directions for patient in English*).
4. Mention the preparations of Cantharides and state their chief therapeutic uses.
5. State the treatment to be adopted in Erysipelas.

# IV.—FINAL PROFESSIONAL EXAMINATION.

## SURGERY—TWO HOURS.

July, 1893.

FOUR questions only to be answered. The Candidate must answer the first THREE.

1. Describe histologically the process of ulceration.
2. (a) Describe the varieties of intestinal obstruction. (b) What considerations would aid you in deciding as to necessity for operative interference?
3. Differentiate anatomically the varieties of Inguinal Hernia.
4. Describe the appearances of the various pulsatile tumours of the head, and give their treatment.
5. Name three regions in which varicose veins are found, and give the appropriate treatment in each.

## PRACTICE OF MEDICINE—TWO HOURS.

11th July, 1893.

N.B.—In replying to the questions bearing on treatment, the Candidate is expected to give prescriptions in full, exactly as they might be sent to a chemist: all the necessary directions for the patient being in English.

1. What is meant by Hyperpyrexia? In what diseases does it occur, and what are the principles to be kept in view in its prognosis and treatment? Indicate in detail the treatment of a special case.
2. Describe the appearance of a young person who is the subject of well-marked inherited syphilis. Indicate some of the curable affections to which such a person is liable, and the treatment to be adopted.
3. Name the varieties of meningitis that are usually recognized. Select any variety best known to you as the basis of a short descriptive sketch, and then remark on the differences between this and the other varieties of meningitis, or other diseases resembling it.
4. A woman, 38 years of age, was admitted to hospital on October 8, 1889, suffering from paroxysmal and often noisy dyspnoea, with characters strongly suggestive of pressure on the air-passages or nerves within the thorax. The report in the hospital journal gives the results of an elaborate examination into this, with mostly negative results. After many exacerbations even carrying suggestions of tracheotomy (which was not, however, performed), and after apparently impending death by suffocation had been treated by everything short of an operation, a certain amount of relief was obtained, and at a still later period (October 26), all the more urgent symptoms connected with the respiration had passed away; "a certain amount of stridor, however, continuing almost always present in inspiration, and sometimes also in expiration." The sputum at first was catarrhal, often tinged with blood. There was no considerable hæmoptysis, and the bacillus

tuberculosis was never detected. No ulceration or change of structure of any kind in the mucous membrane could be discovered by physical examination, and the death about three weeks later (November 21), was peaceful and without further accident of importance. A *post-mortem* examination revealed extensive old ulceration near the bifurcation of the trachea, extending into the main bronchi. The larynx and the upper part of trachea were not implicated, and the lesions discovered in the lungs were regarded as being entirely secondary and of very recent origin. The liver, however, presented a number of deposits, partially caseous, and evidently of very old standing, in the midst of cicatricial tissue. These were regarded as having a quite definable relation to the principal disease, although no evidence of this was obtainable during life. There was no tubercle, and no important abnormal condition in any other organ.

Comment upon this case with special reference to : (a) the pathology of the whole case as revealed after death ; (b) the obscurities in the symptoms as at first observed, and the nature of the "elaborate examination" referred to above, and what possible or probable local causes of the symptoms it was intended to bring within the range of a diagnosis, if present ; (c) what methods of treatment might have been (or were) adopted in this case, tracheotomy being considered out of the question.

## MIDWIFERY—Two Hours.

12th July, 1893.

*Answer FOUR questions only, including the first.*

1. Give the pathology, clinical features, and treatment of an uncomplicated case of spasmodic dysmenorrhœa.
2. Describe the mechanism of labour with the face presenting, the chin being to the right behind.
3. Under what circumstances would you induce premature labour? Describe the method.
4. Mention the hæmorrhages met with during pregnancy and labour, and describe the treatment of post-partum hæmorrhage.
5. Enumerate the conditions under which Cæsarian Section would be advisable, and describe the operation.

## FORENSIC MEDICINE—Two Hours.

10th July, 1893.

NOTE.—Only FOUR questions to be attempted, either number TWO or number FIVE is to be omitted.

1. A man attempts to commit suicide by cut-throat, but failing in his purpose, he throws himself into a river. Before reaching the water he sustains a fracture of the skull. State all the appearances which might be expected, on the body being withdrawn from the water one week after immersion.

2. Discuss the medical evidence in cases of death from wounds which might indicate the mode of their production, whether—

- (a) Suicidal.
- (b) Accidental.
- (c) Homicidal.

3. How far might the symptoms and *post-mortem* appearances due to poison be simulated by those arising from natural disease; what circumstances might aid you in forming your diagnosis?

4. How may arsenic be detected by Reinsch's process? To what extent, and in what way, would the results by Reinsch's process differ, were either antimony or mercury present instead of arsenic?

5. Name the principal manufacturing processes which are recognized as being deleterious to health. Give an account of the mode of entrance into the body of the noxious materials, also estimate the average life-term associated with each occupation, and state shortly what means ought to be adopted for the prevention or alleviation of dangers to the workers.

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### PATHOLOGY—ONE HOUR AND A HALF.

11th July, 1893.

*Only FOUR questions to be answered.*

1. In what ways does cancer show malignancy in its mode of growth, distinguishing between local and general malignancy. Illustrate this in a case of cancer of the mamma, tracing the course of events from its origin till general dissemination of the disease has occurred.

2. What are the commonest parts of the aorta affected with aneurysm? In what way is the wall of the artery affected? What are the effects of aortic aneurysm on surrounding tissues, and what are the more common terminations?

3. Give an account of the conditions met with in acute lobar pneumonia, chronic pneumonia, and fibroid phthisis respectively. Include in your answer both naked-eye and microscopic characters.

4. What do you mean by Primary, Secondary, and Tertiary Syphilis? and what relation does each bear to the syphilitic veins? Give an account of the structure, mode of growth, and usual situations of the gumma.

5. What are the characters of the *Bacillus anthracis*? What morbid conditions does it produce in the living animal? Where is it to be found in the body, and how is its presence demonstrated?



## V.—DEGREES IN LAW.

## I.—PRELIMINARY EXAMINATION FOR B.L.

## a.—ARTS SUBJECTS.

(Same as for Degree of M.A. See pp. 368—384.)

## b.—FRENCH.

## FIRST PAPER.

Translate :—

(a) Les politiques Grecs qui vivaient dans le gouvernement populaire, ne reconnaissaient d'autre force qui pût les soutenir que celle de la vertu. Ceux d'aujourd'hui ne nous parlent que de manufactures, de commerce, de finances, de richesses et de luxe même. Lorsque cette vertu cesse, l'ambition entre dans les cœurs qui peuvent la recevoir et l'avarice entre dans tous. Les désirs changent d'objets, ce qu'on aimait on ne l'aime plus ; on était libre avec les lois, on veut être libre contre elles ; chaque citoyen est comme un esclave échappé de la maison de son maître ; ce qui était maxime, on l'appelle rigueur ; ce qui était règle, on l'appelle gêne ; ce qui était attention, on l'appelle crainte. C'est la frugalité qui y est l'avarice, et non pas le désir d'avoir. Autrefois le bien des particuliers faisait le trésor public ; mais pour lors le trésor public devient le patrimoine des particuliers. La république est une déponille ; et la force n'est plus que le pouvoir de quelques citoyens et la licence de tous.

(b) Enfin, après douze jours d'une marche si pénible, pendant laquelle les Snédois avaient consommé le peu de biscuit qui leur restait, cette armée, exténuée de lassitude et de faim, arrive sur les bords de la Desna, dans l'endroit où Mazeppa avait marqué le rendez-vous ; mais, au lieu d'y trouver ce prince, on trouva un corps de Moscovites qui avançait vers l'autre bord de la rivière. Le roi fut étonné ; mais il résolut sur-le-champ de passer la Desna, et d'attaquer les ennemis. Les bords de cette rivière étaient si escarpés qu'on fut obligé de descendre les soldats avec des cordes. Ils traversèrent la rivière selon leur manière accoutumée. les uns sur des radeaux faits à la hâte, les autres à la nage. Le corps de Moscovites qui arrivait dans ce temps-là même, n'était que de huit mille hommes ; il ne résista pas longtemps, et cet obstacle fut encore surmonté.

(c) Si Damis s'en était mêlé, tout serait dans les règles ; il y aurait partout de l'élégance et de l'érudition, et il ne manquerait pas de vous exagérer lui-même toutes les pièces du repas qu'il vous donnerait, et de vous faire tomber d'accord de sa haute capacité dans la science des bons morceaux ; de vous parler d'un pain de rive à biseau doré, relevé de croûte partout, croquant tendrement sous la dent ; d'un vin à sève veloutée, armé d'un vert qui n'est point trop commandant ; d'un carré de mouton gourmandé de persil ; d'une longe de veau de rivière, longue comme cela, blanche, délicate, et qui, sous les dents est une vraie pâte d'amandes ; de perdrix relevées d'un fumet surprenant, et pour son opéra, d'une soupe à bouillon perlé soutenue d'un jeune gros dindon

cantonné de pigeonceaux et couronné d'oignons blancs mariés avec la chicorée. Mais, pour moi, je vous avoue mon ignorance ; et, comme monsieur Jourdain a fort bien dit, je voudrais que le repas fût plus digne de vous être offert.

(d) A cet intérêt que la personne de Cicéron donne à sa correspondance, il s'en joint pour nous un autre plus vif encore. On a vu, par tout ce que je viens d'écrire, combien notre temps ressemble à l'époque dont ces lettres nous entretiennent. Elle n'avait pas plus que la nôtre de croyance solide, et la triste expérience qu'elle avait faite des révolutions l'avait dégoûtée de tout, en l'habituant à tout. Elle connaissait, comme nous, ces mécontentements du présent et ces incertitudes du lendemain qui ne permettent pas de goûter un repos tranquille. Nous nous retrouvons en elle ; les tristesses des hommes de ce temps sont en partie les nôtres, et nous avons souffert des maux dont ils se plaignaient. Nous sommes placés comme eux dans une de ces époques intermédiaires, les plus douloureuses de l'histoire, où, les traditions du passé ayant disparu et l'avenir ne se dessinant pas encore, on ne sait plus à quoi s'attacher, et nous comprenons bien qu'il leur soit arrivé souvent de dire avec le vieil Hésiode : "Que je voudrais être mort plus tôt, ou être né plus tard !" C'est ce qui donne pour nous un intérêt si triste et si vif à la lecture des lettres de Cicéron ; c'est ce qui m'a d'abord attiré vers elles ; c'est ce qui, peut-être, fera trouver quelque plaisir à vivre un moment dans la compagnie des personnages qu'elles nous dépeignent et qui, malgré les années, semblent souvent être nos contemporains.

## SECOND PAPER.

1. Translate into French :—

"In a fortnight or three weeks," added my uncle Toby, smiling, "he might march." "He will never march, please your honour, in this world," said the corporal. "He will march," said my uncle Toby, rising up from the side of the bed, with one shoe off. "If it please your honour," said the corporal, "he will never march but to his grave." "He shall march," cried my uncle Toby, marching the foot which had a shoe on, though without advancing an inch, "he shall march to his regiment." "He cannot stand it," said the corporal. "He shall be supported," said my uncle Toby. "He'll drop at last," said the corporal, "and what will become of his boy?" "He shall not drop," said my uncle Toby firmly. "Ah well, do what we can for him," said Trim, maintaining his point, "the poor soul will die." "He shall not die," cried my uncle Toby.

2. Conjugate and give 2nd pers. sing. pres. indic. and past definite of *manger*, *acquérir*, *jeter*, *asseoir*, *vêtir*, *mourir*, *moudre*, *traire*, *luire*, *cueillir*.

3. When is the subjunctive mood used in French? When is it used with *ne*? What is the difference in the use of *voilà* and *il y a*, of *temps* and *fois*?

4. (a) What are the chief facts in the History of Protestantism in France?

(b) Give the causes, main facts, and actors in the various Revolutions that have taken place in France.

5. (a) Give some account of the Life and Works of Molière and Victor Hugo.

(b) Give the name of the authors and the approximate dates of the following works, and state what you know about each:—*Lettres Provinciales*, *Nouvelle Héloïse*, *Athalie*, *Grand Testament*, *Candide*, *Médecin malgré lui*, *Le Cid*, *Télémaque*, *Causeries de Lundi*, *Les Trois Mosquetaires*, *Corinne*, *Le Diable*.

6. Give some account of the origin of the French language. Distinguish between *Langue d'Oc* and *Langue d'Oïl*. Compare the forms of *être* and *avoir* with those of the verbs from which they are derived. How do you account for the disappearance of the primitive final *s* in the nouns?

### C.—GERMAN.

#### FIRST PAPER.

Translate:—

(a) Wie begrüsst' ich so oft mit Stannen die Fluthen des Rheinstroms  
Wenn ich reisend nach meinem Geschäft ihm wieder mich nahte!  
Immer schien er mir gross und erhob mir Sinn und Gemüthe;  
Aber ich konnte nicht denken, dass bald sein liebliches Ufer  
Sollte werden ein Wall, um abzuwehren den Franken,  
Und sein verbreitetes Bett ein allverhindernden Graben.  
Seht, so schützt die Natur, so schützen die wackeren Deutschen,  
Und so schützt uns der Herr! Wer wollte thöricht verzagen?  
Müde schon sind die Streiter, und Alles deutet auf Frieden.  
Möge doch auch, wenn das Fest, das lang' erwünschte, gefeiert  
Wird in unserer Kirche, die Glocke dann tönt zu der Orgel  
Und die Trompete schmettert, das hohe *Te Deum* begleitend;  
Möge mein Hermann doch auch an diesem Tage, Herr Pfarrer,  
Mit der Braut entschlossen vor Euch am Altare sich stellen  
Und das glückliche Fest, in allen den Landen begangen  
Auch mir künftig erscheinen, der häuslichen Freuden ein Jahrestag!  
Aber ungern seh' ich den Jüngling, der immer so thätig  
Mir in dem Hause sich regt, nach aussen langsam und schüchtern.  
Wenig findet er Lust sich unter Leuten zu zeigen;  
Ja, er vermeidet sogar der jungen Mädchen Gesellschaft  
Und den fröhlichen Tanz, den alle Jugend begehret.  
Also sprach er und horchte. Man hörte der stampfenden Pferde  
Fernes Getöse sich nahn, man hörte den rollenden Wagen,  
Der mit gewaltiger Eile nun donnert' unter den Thorweg.

(b) Ich ward Soldat aus Parteilichkeit, ich weiss selbst nicht für welche politische Grundsätze und aus der Grille, dass es für jeden ehrlichen Mann gut sei, sich in diesem Stande eine Zeitlang zu versuchen, um sich mit allem, was Gefahr heisst vertraulich zu machen, und Kälte und Entschlossenheit zu lernen. Nur die äusserste Not hätte mich zwingen können, aus diesem Versuche eine Bestimmung, aus dieser gelegentlichen Beschäftigung ein Handwerk zu machen. Aber nun, da mich nichts mehr zwingt, nun ist mein ganzer Ehrgeiz wiederum einzig und allein, ein ruhiger und zufriedener Mensch zu sein. Der werde ich mit Ihnen unfehlbar werden; der werde ich in Ihrer Gesell-

schaft unveränderlich bleiben.—Morgen verbinde uns das heiligste Band; und so dann wollen wir um uns sehen, und wollen in der ganzen weiten bewohnten Welt den stillsten heitersten lachendsten Winkel suchen, dem zum Paradiese nichts fehlt, als ein glücklicher Paar. Da soll jeder unsrer Tage—Was ist Ihnen?

(c) Aber welch ein Anblick als man jetzt wieder zu sich selber kam! Von dem Schlage des entzündeten Vulkans war die Schelde bis in ihre untersten Tiefen gespalten und mit manerhoher Flut über den Damm, der sie umgab, hinausgetrieben worden, so dass alle Festungswerke am Ufer mehrere Schuh hoch im Wasser standen. Drei meilen im Umkreise schütterte die Erde. Beinahe das ganze linke Gerüste, an welchem das Brandschiff sich angehängt hatte, war nebst einem Theile der Schiffbrücke auseinander gesprengt zerschmettert und mit Allem, was sich darauf befand, mit allen Mastbäumen, Kanonen und Menschen in die Luft geführt worden. Selbst die ungeheuern Steinmassen welche die Mine bedeckten, hatte die Gewalt des Vulkans in die benachbarten Felder geschleudert, so dass man nachher mehrere davon tausend Schritte weit von der Brücke, aus dem Boden herausgrub. Sechs Schiffe waren verbrannt, mehrere in Stücke gegangen. Aber schrecklicher als alles dieses war die Niederlage, welche das mörderische Werkzeug unter den Menschen anrichtete. Fünfhundert, nach andern Berichten sogar achthundert, Menschen wurden das Opfer seines Wuth, diejenigen nicht einmal gerechnet, welche mit verstümmelten oder sonst beschädigten Gliedern davonkamen; und die entgegengesetztesten Todesarten vereinigten sich in diesem entsetzlichen Augenblicke.

(d) Auf einem grossen starkknochigen Rosse nahte ein Mann, dessen kräftige Haltung dessen heiteres frisches Ansehen in sonderbarem Contrast stand mit der tiefgefurchten Stirne und dem schon ins Grane spielenden Haar und Bart. Er trug einen zgespitzten Hut mit vielen Federn, einen Brustharnisch über ein eng anschliessendes rothes Wamms Beinkleider von Leder, mit Seide ausgeschlitz, die wohl von Neuem recht hübsch gewesen sein worden, aber durch Regen und Strapazen eine einförmige dunkelbraune Farbe erhalten hatten. Weite schwere Reiterstiefel schlossen sich unter den Knien an. Sein einzige Waffe, ein ungewöhnlich grosses Schwert mit langem Griffe ohne Korb, vollendete das Bild eines gewaltigen, unter Gefahren früh ergranten Kriegers.

## SECOND PAPER.

### 1. Translate into German:—

The town of *Göttingen*, celebrated for its sausages and University, belongs to the King of Hanover, and contains nine hundred and ninety-nine dwellings, divers churches, an observatory, a prison, a library, and a "council cellar," where the beer is excellent. The stream which flows by the town is called the *Leine*, and is used in summer for bathing, its waters being very cold, and, in more than one place, so broad that my dog was compelled to take quite a run before he could jump across. The town itself is beautiful, and pleases most when looked at—backward. The inhabitants of *Göttingen* are generally and socially divided into students, professors, Philistines, and cattle, the points of difference

between these castes being by no means strictly defined. The cattle class is the most important.

2. Conjugate the following verbs :—*braten, denken, graben, hauen, wissen, schmeissen, siedeln, hintergehen*. What is the difference between Separable and Inseparable Prefixes? Give four instances of each.

3. Give the German for—(a) the secret of becoming rich, (b) from want of money, (c) the love of life, (d) the fear of death. Give the gender and nominative plurals of the following nouns :—*Gift, Ohr, Spur, Spiegel, Falke, Komet, Thor*.

4. (a) Give some account of the life and works of Goethe and Lessing.

(b) Give the names of the authors and approximate dates of the following works, and state what you know about each :—*Reisebilder, Undine, Wallenstein, Nibelungenlied, Wilhelm Meister, Kritik der Reinen Vernunft, Flegeljahre, Reineke Fuchs, Laocoon, Messias*.

5. (a) Give some account of the Policy and Wars of Frederick the Great.

(b) What were the causes and circumstances of the Unification of Modern Germany?

## II.—LAW EXAMINATIONS FOR LL.B. AND B.L.

### 1. CIVIL LAW—THREE HOURS.

1. Write a short note upon the influence of the plebeian element in Rome upon the development of private law.

2. Enumerate and explain the ancient forms by which marriage could be contracted under the Roman Law.

3. “*Agri civitatum vectigales vocantur, qui in perpetuum locantur, id est hac lege, ut quamdiu pro his vectigal pendatur, tamdiu neque ipsis, qui conduxerint, neque his, qui in locum eorum successerunt, auferri eos liceat.*” Translate this passage, and explain the nature of the right to which it refers.

4. What were the obligations of the seller under the contract of *emptio venditio*? What remedies were available to the buyer in the event of a breach?

5. Explain the nature of the contract of mandate.

6. State the several enactments passed for the purpose of inducing the heir not to refuse to enter (a) in case of legacies, (b) in case of *fidei commissum*.

7. Explain the following terms :—*Serrus poenae, jus postliminii, bonorum possessio contra tabulas, liberi spurii*.

8. Give the substance of any three of the following *leges*, viz. :—*Junia Norbana, Aelia Sentia, Aquilia, Canuleia, Atilia, Papia Poppaea*.

9. *Quod servus tuus ignorante te vi possidet, id tu non possides, quoniam is, qui in tua potestate est, ignoranti tibi non corporalem possessionem, sed justam potest acquirere, sicut id, quod ex peculio, ad eum pervenerit, possidet; nam tum per servum dominus quoque possidere dicitur, summa scilicet cum ratione, quia quod ex justa causa corporaliter a servo tenetur, id in peculio servi est; et peculium quod*



servus civiliter quidem possidere non posset, sed naturaliter tenet dominus creditur possidere. Quod vero ex maleficiis apprehenditur, id ad domini possessionem ideo non pertinet, quia nec peculii causa apprehendit." Translate and comment upon.

10. Explain the terms *manus injectio*, *bonorum venditio*, *pignoris capio*.

11. Explain the nature of an *Exceptio*. Illustrate your answer by an example.

12. Give a short account of the mode of procedure under the formulary system.

## 2. LAW OF SCOTLAND—THREE HOURS.

Not more than TWELVE of the following questions are to be attempted.

1. How far is the municipal law due to direct legislation?

2. Assignatus utitur jure auctoris. Illustrate from the law of bills of exchange.

3. What is the effect of fraud on the part of an agent?

4. Give the principal rules as to the computation of time.

5. "Where there is an unconditional contract for the sale of specific goods in a deliverable state, the property in the goods passes to the buyer when the contract is made, and it is immaterial whether the time of payment or the time of delivery, or both, be postponed."—Sale of Goods Act, 1893, § 18, Rule 1. Comment on this.

6. What partnerships are prohibited under the Companies Act, 1862?

What remedy has a person who makes a contract with an unlawful company?

7. Give an account of the prescription applicable to Cautionary obligations.

8. What are the rights of coterminous proprietors in running water?

9. In the contract of Lease what warrandice is implied on the part of the landlord?

10. What are the laws of consanguinity and affinity?

What is a second cousin once removed?

11. Distinguish the *Jus mariti* and the right of administration. How far do they still subsist?

12. How may a claim for *legitim* be defeated?

13. A married woman enters into a contract with the consent of the *Curator Bonis* to her husband, who is insane. *Quid juris?*

14. Explain the phrases: *nudum pactum*, *Precatory bequest*, *Fee*, *Representation*.

15. What is the effect of previous convictions in a criminal charge?

## 3. CONVEYANCING—THREE HOURS.

1. What is meant by (a) splitting the superiority, (b) interjecting a superior, (c) subinfeudation, (d) *provisio hominis*, (e) *provisio legis*, (f) vesting, (g) vesting subject to defeasance, and (h) postponed vesting?



2. Distinguish between tenure and contract. Explain the differences between a feu charter, a feu disposition, and a feu contract.

3. What is necessary in order to constitute a real burden upon land in Scotland? Explain the statutory enactments as to reference to burdens, and short descriptions.

4. Can one feuar enforce the conditions of the feu against another feuar? Explain.

5. Describe the various changes made by statute upon the effect of a retour or decree of special service.

6. Give the leading provisions of the two Conveyancing Acts of 1845.

7. Explain implied entry and *ipso jure* investiture, as introduced by the Act of 1874; and state the circumstances to which is applicable a petition for power to complete a title under section 10 of the Act.

8. State the provisions of section 43 of the Conveyancing Act of 1874 as to the completion of a title to trust property where all the trustees have died, and also the qualification as to administration of the property by the person completing the title.

9. *B*, infeft and entered, died intestate, succeeded by *C*. How might you have completed *C*'s title (*a*) in 1820, (*b*) in 1850, and (*c*) in 1880?

10. *B*, infeft and entered, died, leaving a general settlement in favour of *M* and *N*. How might you have completed their title (*a*) in 1840, and (*b*) in 1860?

11. *B*, infeft but unentered, died intestate, succeeded by *C*. In how many ways, specifying them exactly, might you in 1850 have completed *C*'s title, (*a*) where the disposition in favour of *B* was expressed *a me vel de me*, and (*b*) where it was expressed *a me* only.

12. Give the general rule and the exception applicable to heritable securities for future debt, and state the conditions necessary to give effect to the exception.

13. Give the rules for determining in whom is the fee in destinations expressed to husband and wife in conjunct fee and liferent.

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#### 4. PHILOSOPHY OF LAW.

*ONE question to be omitted.*

1. "Even where brute force has the most unrestricted play, and rule is most decidedly based upon sheer terror, all power ultimately rests upon the beliefs and sentiments of the society."

2. Compare the State and the Church as organisms subject to Law.

3. What is meant by a "Principle" as used by Erskine and G. J. Bell?

4. Draw up a tabular scheme of the various divisions of Positive Law.

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#### 5. PUBLIC INTERNATIONAL LAW.

*ONE question to be omitted.*

1. Illustrate the nature of International Law from the Behring Sea Arbitration.

2. Explain the significance of the change made by the United States in accrediting an ambassador to this country.
3. What is the nationality of children?
4. What is the practice of Great Britain as to the extradition of criminals? What is a political crime?
5. What are the rules for the treatment of prisoners?
6. What is the object of the Foreign Enlistment Act?
7. Discuss the definition of contraband in connection with grain, coal, and money.

## 6. PRIVATE INTERNATIONAL LAW.

*ONE question to be omitted.*

1. Give the main rules of Domicile.
2. A Scotswoman married to an American wishes to borrow money on heritable property. What law determines her capacity?
3. A Scotsman marries his deceased wife's sister, the marriage being valid by the *lex domicilii*. Will a child of this marriage take as a child under a Scots settlement.
4. If one of Her Britannic Majesty's coachmen negligently injured a Florentine, *quid juris?*

## 7. CONSTITUTIONAL LAW AND HISTORY—

THREE HOURS.

PART I.

*Only EIGHT questions to be answered.*

1. Explain what is meant by the term "prerogative of the Crown."
2. Explain the nature of the writ of *habeas corpus*. Notice the enactments which have been passed to secure its efficiency.
3. What is meant by the supremacy of Parliament?
4. Give an account of the early statutes in which the supremacy of Parliament is declared, and of the causes which operated to delay their receiving full effect.
5. Write a short note on the Parliamentary privilege of freedom of speech.
6. Give an account of the case of the Seven Bishops, and discuss the Constitutional questions which it raises.
7. State shortly the circumstances and decision in any three of the following cases, viz. :—*Somersett's Case*, 12 Geo. III., 1771-2; *Entick v. Carrington*, 6 Geo. III., 1765; *Ashby v. White*, 2 Anne, 1704; *Darnel's Case*, 3 Car. I., 1627; *Fabrijas v. Mostyn*, 15 Geo. III., 1773; *Bushell's Case*, 22 Car. II., 1670.
8. Discuss the leading characteristics of federalism.
9. Discuss the manner in which under our Constitution harmony is maintained between the Ministry and the Houses of Parliament.
10. Enumerate the existing qualifications in Scotland for voting for Members of Parliament.

## PART II.

*Only FOUR questions to be answered.*

11. Notice the principal Acts passed by the Seven Years' Parliament of Henry VIII.

12. What was the High Commission Court? Under what statute was it established, and when abolished?

13. What was the Great Protestation of 1621? Show how it illustrates the constitutional issue of the time.

14. Contrast the nature of the struggle between the Crown and Parliament during the reign of Charles I. and during the period from the Restoration to the Revolution.

15. Discuss shortly the effect of the Revolution in laying the foundation of the modern system of Parliamentary government.

16. Give a summary of the provisions of the Bill of Rights as to legislation, taxation, the army, petitions and Parliamentary privilege.

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### S. MEDICAL JURISPRUDENCE—TWO HOURS.

1. What appearances upon the accuser and the accused would tend to confirm or to disprove a charge of rape?

2. Describe the microscopic appearances of (a) wool, (b) cotton, (c) linen, (d) silk, and (e) hair.

3. Describe the tests which have been suggested in proof of live-birth.

4. Discuss the value of delusion as evidencing insanity, with special reference to the committing of a homicidal act.

5. What circumstances modify (1) the absorption of poisons, and (2) the elimination of poisons?

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### 9. POLITICAL ECONOMY—TWO HOURS.

*Only SIX questions need be answered.*

FOR STUDENTS OF 1887-8 AND 1892-3.

1. "A State begins with barter and returns to barter." Explain.

2. Give some of the differences between a Bank Note and Paper Money.

3. What part does metallic money play in buying and selling, national and international.

4. Explain the term Balance of Trade.

5. Is there anything to be said for Protection?

6. What part does Rent play in Price?

7. State the Wage Fund theory.

8. Show some of the difficulties of Producers' Co-operatives.

9. Explain the fixing of the bimetallic ratio in 1803.

FOR STUDENTS OF 1891-2.

1. What is included in the idea of private property?

2. "There cannot be two prices in the same market." What are the limitations to this law?

3. Compare Continental land systems with our own.
4. Give Mill's law of wages and the "apparent contradictions" to it.
5. Give some popular remedies for low wages.
6. State the elements of "gross profits."
7. How is Rent measured?
8. "Capital though saved is consumed." Explain.
9. What is Money?

FOR STUDENTS OF 1893-4.

1. What part does metallic money play in buying and selling, national and international?
2. Explain the term Balance of Trade.
3. Is there anything to be said for Protection?
4. What has Cost of Production to do with Trade between countries?
5. Explain the terms Diminishing, Increasing, and Constant Returns.
6. Explain the Relation of Demand and Supply to short period and long period normal prices.
7. How does disagreeableness of work affect wages?
8. Does a Royalty enter into the price of coal?
9. Define Consumption.

VI. FOR DEGREE OF B.D.

I. FIRST DEPARTMENT.

1. HEBREW.

FIRST PAPER—Two Hours.

I. Point and translate the following:—

ולא־קם נביא עוד בישראל כמשה אשר ידעו יהוה  
 פנים אל־פנים: לכל־הא־תת והמו־פ־תים אשר שלחו  
 יהוה לע־שׁוֹת בארץ מצרים לפרעה ולכל־ע־בדיו ולכל  
 ארצו: ולכל חיד החזקה ולכל המורא הגדול אשר  
 ע־שה משה לעיני כל־ישראל:  
 ויהי ככלתו לדבר את כל־הדברים האלה ותבקע  
 האדמה אשר תחתיהם: ותפתח הארץ את־פיה ותבלע  
 אתם ואת־בתיהם ואת כל־האדם אשר לקח ואת  
 כל־הרכוש: וירדו הם וכל־אשר להם חיים שאלה  
 ותבם עליהם הארץ ויאבדו מתוך הקהל: וכל־ישראל  
 אשר סביב־תיהם נסו לקלם כי אמרו פן־תבלענו הארץ:

כִּדְאָמַר יְהוָה צְבָאוֹת אֱלֹהֵי יִשְׂרָאֵל אַתֶּם רִאִיתֶם  
 אֶת בְּלִדְהָרְעָה אֲשֶׁר הִבֵּאתִי עַל־יְרוּשָׁלַם וְעַל כָּל־עִיר  
 יְהוּדָה וְהִנֵּם חָרְבָה הַיּוֹם וְאֵין בָּהֶם יוֹשֵׁב: מִפְּנֵי  
 רַעְתֶּם אֲשֶׁר עָשׂוּ לְהִבְעֵסֵנִי לָלֶכֶת לְקָטֹר לַעֲבֹד לֵאלֹהִים  
 אֲחֵרִים אֲשֶׁר לֹא יָדְעוּם הִמָּה אַתֶּם וְאַבְתִּיכֶם: וְאַשְׁלַח  
 אֵלֵיכֶם אֶת־כָּל־עַבְדֵי הַנְּבִיאִים הַשִּׁבִּים וְשָׁלַח לֵאמֹר  
 אֲלֵנָּה תַעֲשׂוּ אֶת דְּבַר־הַתַּעֲבָה הַזֹּאת אֲשֶׁר שָׁנֵאתִי:  
 וְלֹא שָׁמְעוּ וְלֹא הָטוּ אֶת־אָזְנוֹם לָשׁוּב מִרַעְתֶּם לְבַלְתִּי  
 קָטֹר לֵאלֹהִים אֲחֵרִים:

II. To be done into punctuated Hebrew:—

And he was afraid and said, How dreadful is this place. How is it that thou hast found it so quickly? More are the children of the desolate than the children of the married woman. And to-morrow shall be as this day, great beyond measure. Thou makest the outgoings of morning and evening to rejoice. Blessed art thou in the city, and blessed art thou in the field. Blessed art thou in thy coming in, and blessed art thou in thy going out.

And the men of the place asked concerning his wife; and he said, She is my sister for he was afraid to say, my wife, lest (said he) the men of the place should kill me for Rebekah, because she was fair to look upon.

The Lord shall establish thee to himself for a holy people, according as he hath sworn unto thee, if thou shalt keep the commandments of the Lord thy God, and shalt walk in his ways.

Behold the Lord's hand is not shortened that it cannot save, nor is his ear heavy that it cannot hear. But it is your iniquities that have caused a separation between you and your God, and your sins have hid his face from you that he will not hear.

Surely men of low degree are vanity and men of high degree are a lie.

## SECOND PAPER—TWO HOURS AND A HALF.

I. (1) Genesis xxvii. (a) Translate vv. 21—23, and 26—29.

(b) Parse וַאֲמִינֶךָ in v. 21; הַבִּירוֹ in v. 23; וַשְׁקֵה־לִּי in v. 26 (remarking on the punctuation); וַיִּרָּח in v. 27; and וַיִּשְׁמְנֵנִי in v. 28.

(c) Translate v. 39, and justify your translation as compared with v. 28.

(d) In v. 29, give the correct pointing of the first word; give a note on the Qrê and Ketib; and explain the construction in the second half of the verse.

(e) In v. 34 explain the syntax of יִצְעַק

(f) This narrative is said to be composite. What are the indications of this, and what are the sources?

(2) Genesis xlix. Translate and give exegetical remarks on:—

(a) v. 6; (b) vv. 10—12; (c) vv. 22—26.

II. (1) Isaiah lviii. 6—11. (a) Translate.

(b) Parse הָרִצְבוֹת and הָתָר in v. 6; מְרֻדִים in v. 7; יֹאסֵפֶךָ in v. 8; וְתִפֹּק in v. 10; and רוּחַ in v. 11.

(c) Explain the tense usages in vv. 6, 7a, and give the syntax of v. 7b. On what does וְרוּחַ in v. 10 depend?

(2) Isaiah lxiii. 17—lxiv. 4. (a) Translate.

(b) Parse תִּתְעַנֵּנוּ in v. 17; בּוֹסֶסוּ in v. 18; נִזְלוּ in v. 19; הַמִּסִּים in v. 1; and שֵׁשׁ in v. 4.

(c) Remark on the syntax of 19a, and explain the use of the perfect קָרַעַת in the same verse.

(d) What is the syntactical force of לֹא נִקְוָה in v. 2? What have you to say on the final vowels of יַעֲשֶׂה and לְמַחֲבָה in v. 3? In what case is צִדֵּק in v. 4?

(e) Defend your translation of v. 4b, and give other renderings.

(f) What is to be said on the condition of the text of this passage? And what do you suppose to have been the primary reference and occasion?

III. (1) Psalm lxviii. Translate vv. 20—28, and add brief *grammatical* notes.

(2) Psalm lxix. Give an introduction to this psalm, and a summary of its contents.

## 2. NEW TESTAMENT EXEGESIS.

1. Mention the passages in Scripture which contain the name of Luke, and state what information they give as to his nationality, his profession, and his history.

2. State the arguments (a) for, and (b) against Griesbach's theory as to the origin of Mark's Gospel.

3. In Mark iv. 2—25 the phrase *καὶ ἔλεγεν αὐτοῖς* repeatedly recurs, varied in verse 13 by *καὶ λέγει αὐτοῖς*. What light is thus thrown upon the structure of the whole passage? Compare it with the corresponding passages in Matthew and Luke.

4. Mark v. 22—29. Point out any difficulties in construction, and



any peculiarities of style in this passage. Compare it with the corresponding passages in Matthew and Luke.

5. Translate Col. i. 18—20. Comment on this passage clause by clause. What are the emphatic words in verse 18? What is the force of the relative *ὅς* in this verse? State the different views as to the subject of *εὐδόκησεν* in verse 19. What explanations have been given of *πάν τὸ πλήρωμα*? What is the construction of *εἰρηνοποιήσας*?

6. Col. ii. 2. After *τοῦ θεοῦ* Tischendorf and Ellicott insert *Χριστοῦ*. Discuss the other alternative readings. If *Χριστοῦ* be accepted, what are the possible constructions of the last three words? Which construction is to be taken, and on what grounds?

7. Col. ii. 3. The authorized version of this verse is "In whom are hid all the treasures of wisdom and knowledge." The revised version has "In whom are all the treasures of wisdom and knowledge hidden." Alford renders it, "In which are all the secret treasures of wisdom and knowledge." Refer to the original, and discuss these various renderings.

8. Translate Philem. 8—16. Notice various readings, and point out irregularities of construction.

### 3. APOLOGETICS.

1. Define the object and province of Apology and Apologetic respectively.

2. Examine shortly the meaning and grounds of the classification of theories as "Antitheistic."

3. Examine the import of and bearing of the word "Force" in reference to Materialism.

4. Specify the chief forms of Pantheism, and briefly indicate their most distinctive features.

5. State and shortly examine the theory of Positivism.

6. Examine the distinction between Revelation and Inspiration.

7. Discuss the exegesis and doctrinal bearing of the following passages:—II. Tim. iii. 16, "All Scripture," etc.; II. Pet. i. 20, 21, "No prophecy of the Scripture," etc.; and I. Cor. vii. 6, "I speak this by permission and not of commandment."

8. Indicate the views as to Inspiration held by Grotius, Doddridge, Schleiermacher, Gaussen, Philippi, respectively.

9. State shortly the nature and grounds of the dynamical theory.

10. The Bible *is* God's Word. The Bible *contains* God's Word.—State and examine shortly the bearings of this distinction.

## II. SECOND DEPARTMENT.

### I. DIVINITY—THREE HOURS.

1. State, and briefly examine, the chief views that have been held as to the import of the designation of Christ as "Son of God."

2. Give some account of the chief forms assumed by Docetism in the Church.

3. Examine briefly the import of the passage, "Who, being in the form of God, thought it not robbery to be equal with God; but made himself of no reputation, and took upon him the form of a servant, and was made in the likeness of men; and being found in fashion as a man, he humbled himself and became obedient unto death, even the death of the cross"; and state the tenor of the chief theories as to the Kenosis.

4. Classify the chief theories as to the Atonement; and examine shortly those of Anselm, Grotius, and Dr. Macleod Campbell.

5. Examine (a) the argument based on the alleged absence of reference to Christ's atoning work in his own utterances; and (b) the suggestion that this doctrine is due to St. Paul.

6. Indicate the place of the Resurrection of Christ in the Book of Acts and First Epistle of Peter respectively.

7. Specify the chief elements of the teaching of the early discourses in Acts regarding the person, character, and work of Jesus.

8. Give what seems to you the best rendering, and the probable meaning or reference, of the following passages:—

(a) "Hope to the end for the grace that is to be brought unto you at the revelation of Jesus Christ."

(b) "Who his own self bare our sins in his own body on the tree, that we being dead to sin should live unto righteousness."

(c) "Not the putting away of the filth of the flesh, but the answer of a good conscience toward God."

9. What is St. Peter's view of the relation of his readers to Old Testament promise?

10. What are the Scriptural grounds for holding the sinlessness of Christ?

## 2. CHURCH HISTORY—THREE HOURS.

1516—1647.

1. Indicate the points of affinity, and of divergence, in the Reformation as conducted by Luther, by Zwingli, and by Calvin.

2. Describe the relations of Erasmus and the Humanists to Luther and reform.

3. Give an estimate of the effect of the Council of Trent, and the order of Jesus, in arresting reformation.

4. Point out the special characteristics of the Reformation as carried out in (1) England, and (2) Scotland.

5. Sketch the work and teaching of Socinus, and his influence on theological thought.

6. What was the nature of the Molinist Controversy?

7. Specify the difference between the doctrine of the Roman Catholic and that of the Reformed Church on the authority of Scripture and Tradition.

8. Describe the doctrinal principles of Arminius and their relation to the Synod of Dort.

9. What influences are recognizable as affecting the theology of the Westminster Assembly.

10. Trace the origin and development of English Puritanism.

## 3. BIBLICAL CRITICISM.

## a. TEXTUAL CRITICISM—TWO HOURS.

1. Estimate the value of the evidence for the text which is given by (a) Greek Manuscripts, (b) Versions, and (c) Patristic Citations.
  2. Distinguish between Intrinsic Probability and Transcriptional Probability. Classify various readings, and state the chief canons for estimating Transcriptional Probability.
  3. What means are available for determining (a) the age of a MS. and (b) the age of its text?
  4. Show that in estimating the value of the evidence for the text it is important to take account of the distribution of the witnesses in time and space.
  5. State and criticise the Recension theory propounded by Westcott and Hort.
  6. Give Tischendorf's rules for the constitution of the text of the New Testament, with examples illustrative of each.
  7. What are the characteristics of the group AKMII in the Gospels?
  8. How can it be shown that  $\Sigma$ BDL contain an ancient *type of text*? On the other hand, what facts seem to point to these and kindred MSS. having been derived mediately or immediately from a MS. with a corrupt text?
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## b. HERMENEUTICS—TWO HOURS.

1. Classify the causes which may render the meaning of a later copy of an ancient writing doubtful, and state the resources at our command for removing ambiguity.
2. Explain *διάλεκτος κοινή*, *ἅπαξ λεγόμενα*, *usus loquendi*, Context, Parallels, Hermeneutics, Heuristics, Exegesis.
3. Trace the various steps in the process by which we arrive at an adequate knowledge of an ancient book.
4. State the peculiarities of the *διάλεκτος κοινή*. What effect did the introduction of Christianity produce upon the language of the time, and especially upon the vocabulary of ethics?
5. What causes lead a speaker or writer to use figurative language?
6. Distinguish between Fable, Parable, and Allegory. What is meant by a symbolical parable, and what by a typical parable? Give the rules for the interpretation of parables.
7. Indicate the conditions which led the early Christians to adopt the Allegorical method of Interpretation.

## VII. EXAMINATIONS FOR HISTORICAL PRIZES.

## I.—LUKE.

## A.—ROMAN HISTORY.

1. State the exact date, locality, and occasion of each of the following Battles, with the names of the commanders and peoples engaged on either side :—

- |                      |                              |
|----------------------|------------------------------|
| (1) Battle of Pydna. | (6) Battle of Aquae Sextiae. |
| (2) „ Asculum.       | (7) „ Trebia.                |
| (3) „ Sacriportus.   | (8) „ Thapsus.               |
| (4) „ Metaurus.      | (9) „ Mylae.                 |
| (5) „ Cynoscephalae. | (10) „ Magnesia.             |

2. Give the date, the occasion, and the purport of the following laws :—

- |                          |                                |
|--------------------------|--------------------------------|
| (1) Lex Aternia Tarpeia. | (6) Lex Cassia Tabellaria.     |
| (2) „ Gabinia.           | (7) „ Cassia Agraria.          |
| (3) „ Icilia.            | (8) „ Publilia.                |
| (4) „ Plautia Papiria.   | (9) „ Horatia de Provocatione. |
| (5) „ Fufia.             | (10) „ Aurelia Iudiciaria.     |

3. Compare the religion, and the religious sentiment, of the Romans with those of the Greeks.

4. Enumerate the Roman Provinces in the time of Augustus, indicating briefly their boundaries, and naming the modern country or countries to which they correspond.

5. The influence of Etruria upon Rome.

6. What does Cicero mean by *Concordia Ordinum*? State clearly in what it consisted, and what were the courses which led to its collapse. Refer to any passages in Cicero, or periods in his life, in which reference is made to it.

7. Give the main points in the legislation of Sulla. Was it permanent? If not, why not?

8. What were the facts which rendered the establishment of a *principatus* at Rome inevitable? Trace the gradual growth of the “one man power” at Rome.

9. Trace the spread of Roman conquest in the East, with dates and names.

10. How far was the Roman electoral system successful in attracting men of the best class to politics?

11. What methods of political obstruction existed at Rome?

12. What political elements entered into the poetical literature of the Augustan age? Contrast the political attitude of Augustan writers with that of the post-Augustan age, and state the causes of the change.

## B.—GREEK HISTORY.

NOTE.—*Candidates are advised not to attempt more than six questions, one of which must be Question 1.*

1. Translate and comment upon any *five* of the following passages :—

(1) Μετὰ δὲ, τὰ ἐς πόλεμον ἔχοντα, ἐνωμοτίας καὶ τριηκάδας καὶ σισσίτια, πρὸς τε τούτοις τοὺς ἐφόρους καὶ γέροντας ἔστησε Λυκοῦργος. (Herod. I. 65.)

(2) Πολυκράτης γάρ ἐστι πρῶτος τῶν ἡμεῖς ἴδμεν Ἑλλήνων, ὃς θαλασσοκρατέειν ἐπενοήθη, πάρεξ Μίνως τε τοῦ Κνωσσίου, καὶ εἰ δὴ τις ἄλλος πρότερος τούτου ἦρξε τῆς θαλάσσης. (Herod. III. 122.)

(3) Οἱ δὲ Φοίνικες οὗτοι οἱ σὺν Κάδμῳ ἀπικόμενοι, τῶν ἦσαν οἱ Γεφυραῖοι, ἄλλα τε πολλὰ, οἰκίσαντες ταύτην τὴν χώραν, ἐσήγαγον διδασκάλια ἐς τοὺς Ἕλληνας, καὶ δὴ καὶ γράμματα· οὐκ ἔοντα πρὶν Ἑλλήσι, ὥς ἐμοὶ δοκέειν. (Herod. V. 58.)

(4) Θῶμα δέ μοι, καὶ οὐκ ἐνδέκομαι τὸν λόγον, Ἀλκμαίωνιδας ἂν κοτε ἀναδέξαι Πέρσῃσι ἐκ συνθήματος ἀσπίδα, βουλομένους ὑπὸ βαρβάροις τε εἶναι Ἀθηναίους καὶ ὑπὸ Ἰππῆι. (Herod. VI. 121.)

(5) Καὶ ἄλλοι τε παριόντες ἐγκλήματα ἐποιοῦντο ὥς ἕκαστοι καὶ Μεγαρήs, δηλοῦντες μὲν καὶ ἕτερα οὐκ ὀλίγα διάφορα, μάλιστα δὲ λιμένων τε εἰργεσθαι τῶν ἐν τῇ Ἀθηναίων ἀρχῇ καὶ τῆς Ἀττικῆς ἀγορᾶς παρὰ τὰς σπονδάς. (Thuc. I. 67.)

(6) Οἱ μὲν δὴ Ἀθηναῖοι καὶ οἱ Πελοποννήσιοι ἀνεχώρησαν τῷ στρατῷ ἐκ τῆς Πύλου ἑκάτεροι ἐπ' οἴκου, καὶ τοῦ Κλέωνος καίπερ μανιώδης οὕσα ἡ ὑπόσχεσις ἀπέβη. (Thuc. IV. 39.)

(7) Ξυνέβαινε δὲ καὶ πρὸς τοὺς Ἀργείους αὐτοῖς τὰς τριακονταετείς σπονδὰς ἐπ' ἐξόδῳ εἶναι, καὶ ἄλλας οὐκ ἤθελον σπένδεσθαι οἱ Ἀργεῖοι, εἰ μὴ τις αὐτοῖς τὴν Κυνουριαν γῆν ἀποδώσει. (Thuc. V. 14.)

(8) Ἐν δὲ τούτῳ, ὅσοι Ἑρμαῖ ἦσαν λίθινοι ἐν τῇ πόλει τῇ Ἀθηναίων (εἰσὶ δὲ κατὰ τὸ ἐπιχώριον, ἡ τετράγωνος ἐργασία, πολλοὶ καὶ ἐν ἰδίοις προθύροις καὶ ἐν ἱεροῖς) μιᾷ νυκτὶ οἱ πλείστοι περιεκόπησαν τὰ πρόσωπα. (Thuc. VI. 27.)

(9) Οἱ δὲ πρυτάνεις φοβηθέντες ὠμολόγουν πάντες προθῆσειν, πλὴν Σωκράτους τοῦ Σωφρονίσκου· οὗτος δ' οὐκ ἔφη ἄλλ' ἢ κατὰ τοὺς νόμους πάντα ποιῆειν. (Xenophon, *Hellenica*, I. vii. 15.)

(10) Τίς μὲν οὖν ἡ φύσις τοῦ δούλου καὶ τίς ἡ δύναμις ἐκ τούτων δῆλον· ὁ γὰρ μὴ αὐτοῦ φύσει ἄλλ' ἄλλον, ἄνθρωπος δέ, οὗτος φύσει δοῦλός ἐστιν. (Aristotle, *Politics*, I. 4.)

2. How far can Homer's pictures of early Greek society be regarded as historical?

3. Enumerate the more important Greek colonies in Sicily and Magna Graecia, and describe the circumstances under which they were founded.

4. Distinguish carefully the various Persian expeditions against Greece. Draw a sketch map showing the route followed by Xerxes from Sardis to Attica.

5. Give some account of the life of Cimon son of Miltiades, with special reference to his political action.

6. What were the main lines of the home and foreign policy of Pericles? How far was the disastrous conclusion of the Peloponnesian War due to departures from his principles of action?

7. What were the political views of Aristophanes? Illustrate your answer by detailed reference to any one of his plays.

8. Describe the position of the Athenians before Syracuse at the time of the arrival of Gylippus. Illustrate, if you can, by a sketch map.

9. What various constitutional changes took place at Athens between the years 412 and 402 B.C.

10. Discuss briefly the causes and the consequences of the Theban supremacy.

11. Trace the growth of the power of Macedon between 348 and 338 B.C.

12. Enumerate the chief political speeches of Demosthenes, and indicate the main purport of any one of them.

13. Give some account of the Achaean League.

## II.—Gladstone.

1. What elements of fact are contained in the Arthurian legends?
2. How did the character and actions of Edward the Confessor prepare the way for the Norman Conquest?
3. Point out the differences between Continental feudalism and English feudalism. How far is it true that the Norman Conquest introduced feudalism into England?
4. Sketch the career of Simon de Montfort, and estimate the ultimate effect of his measures.
5. Give an account of the struggle of the monarchy with the Church in the time of Becket, and show how it was affected by the condition of the papacy.
6. How did the Renaissance influence the social and literary development of England?
7. Account (*a*) for the intimate relations between Scotland and France before and during the Reformation period, and (*b*) for the strength of the Calvinistic element in the Scottish Reformation.
8. Describe the policy and character of Pym.
9. Describe and discuss the policy of Charles II. and James II. towards the Nonconformists.
10. Describe the struggle of Whigs and Tories in the reign of Queen Anne. How far had the system of party government been carried by the end of this reign?
11. How far is it true that the wars waged by Great Britain during the eighteenth century were urged for colonial and commercial supremacy?
12. Describe the policy of Pitt as regards Irish trade and Catholic emancipation.

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XII.—VACATION EXERCISES, *Etc.*

For 1894-95.

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## CLASSES OF ORIENTAL LANGUAGES.

Prizes are offered:—

1. For an examination on unpointed text.
  2. For an original Composition in Hebrew.
  3. For readings in the Old Testament Scriptures.
- Professions to be given in, in writing, not later than 10th November, 1894.

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LOGIC CLASS.

VACATION ESSAYS AND READING.

I. *For Students of Session 1893-94.*

A.—ESSAYS.

1. Causality.
2. External Perception.



## B.—READING.

1. *Knowing and Being* (Blackwood & Sons, Edinburgh).
2. Descartes' *Meditations* and *Principles of Philosophy* (English Translation of 1879 or subsequent editions), with the Introductory Essay.
3. Hamilton's Discussions, viz., *Philosophy of the Unconditioned*, *Philosophy of Perception and Logic*, with Appendix I., Philosophical.

A student may take up one or more of the subjects prescribed. The Essay to be given in to the Professor on Thursday, 6th December, 1894, with sealed letter containing author's name and motto.

The Examination in Reading will take place before Christmas.

- II. *For students who propose to join the Class for the first time in October, 1894, the following Reading is recommended, viz. :—*  
*Institutes of Logic*, Part I., chapters i., ii., iii., iv., vi., vii., viii., ix., x., xi. (large print only); Descartes (English Translation of 1879 or subsequent edition), *Introduction*, sections I., II., III., and *Meditations*, I., II., and IV.

Prizes will be given for examination in this department. The examination will take place early in November, 1894.

## ENGLISH LITERATURE.

## VACATION READING.

Wordsworth's *Prelude* (especially Books 1, 2, 12, 13, 14; Matthew Arnold's volume of *Selections* from Wordsworth; Shelley's *Prometheus Unbound*; Keats's *Hyperion*.

The Examination is open to members of the Class of 1893-94, and to intending members of the Class of 1894-95. A prize will be given for the best paper done in each class. Questions requiring a minute study of the text will not be set.

## GREEK CLASSES.

Open to any member of the Greek Class, Sessions 1893-94 and 1894-95.

1. Greek Prose—Sir Thomas More, *Utopia*, pp. 81—86 in Cassell's National Library: "The chief and almost the only business of the Syphogrants . . . is called of late their Adcmus."
2. To learn by heart Sophocles' *Ajax*, omitting the lyrical passages.
3. To learn in the same way Aeschylus' *Prometheus*.
4. A written examination in Aeschylus' *Agamemnon*, to be held in October, 1894.

The same student may enter for all the above competitions. Several prizes may be given for each competition.

The Prose to be sent in by 22nd October, 1894.

## HUMANITY CLASS.

Prizes will be given for Vacation Exercises as follows :—

- I. Open to all students who shall enrol in the Senior Class of 1894-95, for the best Examination in the following subjects :—
  1. Livy, Book XXI. (Capes).
  2. Horace, *Odes* II. ; Virgil, *Georgic* IV.
- II. Open to all members of the Junior Class, 1893-94.
  1. Virgil, *Aeneid* V., lines 1—449 (Sidgwick).
  2. Cicero, *De Senectute* (Sidgwick or Reid).
- III. For Latin Prose—Open to all members of the Senior Class, 1893-94.  
For the best Latin Essay on the following subject :—*Namque spreta exolescunt ; si irascere, agnita videntur.*—Tac. Ann. IV. 34.
- IV. For Latin Prose—Open to all students who shall enrol in the Senior Class of 1894-95. For the best translation into Latin of Landor's Pentameron (Walter Scott, London), from p. 34, "What Dante saw," to p. 37, "last year's."
- V. For Latin Prose—Open to all members of the Junior Class, 1893-94.  
For the best translation into Latin of Second Punic War (Arnold, Macmillan & Co., or Arnold's Rome, chap. xliii.), p. 139, "Matters were," to p. 141, "Roman governor."

The Examinations in the above subjects will be held early in November, 1894. The exercises must be sent in to the Professor on or before 1st November. Each exercise must bear a motto, and be accompanied by an envelope bearing the same motto, with the writer's name inside, together with a statement that the exercise is his own unaided work.

## CLASS OF BOTANY.

A prize is offered to Students in the Class of Botany in Session 1894-95 for the best and approved Herbarium of Scottish Phanerogamous and Vascular Cryptogamous plants, to be named after Hooker's *Students' Flora of the British Islands*. The specimens must have been collected upon the mainland of Scotland, or upon the Scotch Islands, between 9th July, 1894, and 9th October, 1895, and must have affixed, in addition to the name, the date and locality of collection.

The Herbaria must be sent, addressed to the Professor of Botany, to the University of Glasgow, on or before 9th October, 1895, and with each a sealed note bearing a motto outside, and containing the name of the competitor, with a declaration that the plants in the collection have all been gathered by himself in Scotland, and within the period above stated, and that they have been named by him without assistance save that derived from books or Herbaria.

The collections must be accompanied by a numbered and arranged list of the plants contained in them.

### XIII.—ABSTRACT OF THE PROCEEDINGS OF THE UNIVERSITY COURT.

FROM 1ST JUNE, 1893, to 31ST MAY, 1894.

**1st June, 1893.**—The Court met. Present—The Principal (in the chair); James Colquhoun, LL.D.; Hector C. Cameron, M.D.; Sir J. Neilson Cuthbertson; the Rev. J. W. King, M.A.; Professor Stewart; and Sheriff Berry. A letter from the Senate on the question of the regulations for examinations in medicine, which regulations had been previously submitted, together with printed time-tables and a printed statement by the Dean of the Faculty of Medicine, were submitted, and the Dean of the Faculty heard on the subject, and in the light of the fuller details now given, the Court approved of the regulations for the presently ensuing examinations. A report of the Committee to meet the Muirhead Trustees was received and adopted. The report bore that the Committee had received from the Muirhead Trustees a memorandum embodying a scheme for the working of the Muirhead Trust along with the University, the adoption of which the Committee could not recommend. The Court directed the Secretary to write to the Muirhead Trustees that they regret that, for reasons given, they cannot accept the scheme presently put forward, but that they will be willing to receive, and favourably consider, any other scheme, should the Trustees feel disposed to frame another. The Court approved of certain changes in the order of his classes and subjects of lecture proposed by Professor Young. An extract minute of the Commissioners was read, putting it in the power of the various University Courts to grant exemption to sons of Professors from payment of fees, and the Court deemed it inexpedient to take any action in the matter. On the report of the Committee appointed on 27th April, 1893, the Secretary was instructed to write the Professor of Medical Jurisprudence and the Senate for a statement of what is being done to meet the requirements of Ordinance No. 14, and under the regulations on pp. 150, 151 of Calendar for 1892-1893. A letter from the Secretary of the Commissioners was read intimating that the Commissioners do not now propose to issue an Ordinance giving power to sell the Hunterian Coins. Sir James King, Bart., was reappointed to the Highlands and Islands Educational Board for five years from 1st August. The Court appointed Dr. Robert Perry, ex-president of the Faculty of Physicians and Surgeons, to be a director of the Glasgow Samaritan Hospital for Women for this year.

**27th June, 1893.**—The Court met. Present—The Principal (in the chair); Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; the Rev. J. W. King, M.A.; D. C. M'Vail, M.B.; Professor Stewart; Professor Ramsay; and Sheriff Berry. After consideration of various applications which had been lodged, Mr. W. M. Lindsay, M.A., Jesus College, Oxford, was appointed additional examiner in Classics for a period of

three years. A letter from the Commissioners upon the construction of certain words in Section IX. of Ordinance No. 14—Medicine—regarding the extent and scope of lectures of the Professors, was read, and the Secretary was instructed to forward a copy to the Senate for the information of the Medical Professors. A letter from the Commissioners making certain suggestions as to the method of arranging the finance for next session, in the event of the Financial Ordinance not having by that time received the approval of the Queen in Council, was remitted to the Finance Committee, with power to negotiate with the Professors thereon. With regard to a letter from Professor Cleland desiring to be relieved from his duties as Trustee on the Barbour Trust, the Secretary was instructed to endeavour to arrange for Professor Cleland's retirement, upon condition of Mr. M'Vail being assumed as his successor.

20th July, 1893.—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; James Colquhoun, LL.D.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; D. C. M'Vail, M.B.; Professor Stewart; Professor Ramsay; and Sheriff Berry. The Court received and considered a report from the Senate on University Bursaries, Scholarships, and Prizes, and with some alterations adopted the same, and instructed the Secretary to communicate it to the Commissioners. The following appointments were made, all for next year:—Dr. Joseph Coats, Lecturer on Pathology; Dr. William Smart, M.A., Lecturer on Political Economy; Mr. W. Galbraith Miller, Lecturer on Philosophy of Law for Arts Students; Dr. Thomas Reid, as Waltonian Lecturer and Lecturer on the Eye. Mr. Andrew Gray was reappointed additional examiner in Physics for Degrees in Medicine. The members of the Board of Examiners for the Preliminary Examination were reappointed till January, 1894, viz.:—Professor Ramsay, Professor Jack, Professor Bradley, Dr. George Merry, Mr. A. M. Bell, Mr. H. S. Beresford Webb, Mr. R. H. Pinkerton, and Mr. J. W. Marshall. It was remitted to the Finance Committee to tabulate a scheme showing what sums are at present being paid for assistants, and so far as possible what further sums will be required. A report of the Queen Margaret Committee regarding teaching arrangements there was considered and remitted to the Senate for their opinion. Professor Ramsay moved, and Sheriff Berry seconded the following appointments of Lecturers to women students, all for next session:—Dr. Smart, Political Economy; Dr. Bryce, Anatomy; Dr. Hawthorne, Materia Medica and Therapeutics; Dr. Murdoch Cameron, Midwifery; Dr. Lindsay Steven, Pathology; Dr. Fleming, Surgery and Clinical Surgery; and Dr. Wallace Anderson, Practice of Medicine and Clinical Medicine. Mr. M'Vail proposed as an amendment that these appointments be not made. There being no seconder the amendment dropped, and the motion was carried. The appointments were made. Minute of meeting of the Finance Committee of 18th inst. was approved and adopted, fixing the remuneration of the Clerk of the General Council, and dealing with the payment and audit of University accounts, insurance of University buildings, lease of Vouchers' Farm, collection of University fees, University investments, proceedings for recovery of arrears, and other matters. A letter was submitted from the Commissioners suggesting that as the Financial Ordinance may not

become law before next October, the Court should make arrangements with the Arts Professors, or those who were willing, to collect the fees next session and arrange the finances, all as if the Ordinance had passed. The suggestion of the Commissioners was adopted. The Court agreed to recognize for the purposes of graduation the lectures of Dr. T. K. Dalziel, in Anderson's College, on Medical Jurisprudence; and of Dr. J. Berry Haycraft, of University College, Cardiff, on Physiology. In answer to an enquiry by Professor Young, Keeper of the Hunterian Museum, the Secretary was instructed to transmit to him a copy of the report by the Library and Museum Committee of 30th April, 1891, and to say that the Court have made no other statement than is therein contained regarding the Hunterian Library and Museum. Mr. Alexander Murdoch, formerly Assistant to the Professor of Greek, was appointed Assistant Librarian in the Hunterian Library, for the purpose of compiling the catalogue under the superintendence of the keeper. Mr. M'Vail intimated that Dr. Whitson, of Somerset Place, Glasgow, was willing to present to the Court, a portrait of his uncle, Dr. Robert Freer, Professor of Practice of Medicine in the University from 1796 to 1827.

**31st July, 1893.**—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; James Colquhoun, LL.D.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; D. C. M'Vail, M.B.; Professor Stewart; and Sheriff Berry. After an explanation by the Principal, who had met Mr. William Smart on the subject, Professor Stewart moved, and Sheriff Berry seconded, that the law agents be instructed to introduce into the Deed of Gift of Queen Margaret College a clause regarding the donation of £3000 by Messrs. Alexander and William Smart, to the effect that said donation is to be applied by the University for the teaching of Philosophy and Political Economy, all details being left to the discretion of the Court. Mr. M'Vail moved as an amendment, that before that be done, the Deed of Gift be printed and sent to the Senate and the General Council for report thereon. The amendment not being seconded, the motion was carried. The following appointments of lecturers to women students were made, all for next session, viz.:—Mr. J. A. L. Kunz, on French Language and Literature; Dr. Alexander Tille, on German Language and Literature; and Mr. James Blyth, M.A., F.R.S.E., on Physics. Professor Murray was appointed one of the examiners for the preliminary examinations, to hold office till 31st January, 1894.

**11th September, 1893.**—The Court received a petition by Professor Leishman for leave to retire from his office, on the ground of infirmity, together with a relative medical certificate. The Secretary was instructed to prepare a report to be signed by the Principal, and forwarded to the Clerk of the Privy Council, in usual form, approving of the petition. It was reported on behalf of the Ordinance Committee, that as instructed they had revised an agreement between the Court and the Managers of the Western Infirmary, regarding the use of the new Pathological Institute to be built at the Infirmary. Copies of the plans were submitted and approved, signed by the Principal; the Hon. the Lord Provost; Sir James King, Bart.; James Colquhoun, LL.D.; Sir J. N. Cuthbertson; the Rev. J. W. King, M.A.; Professor Stewart; and Sheriff Berry.



**4th October, 1893.**—The Court met. Present—The Principal (in the chair); the Hon. the Lord Provost; Sir James King, Bart.; James Colquhoun, LL.D.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; the Rev. J. W. King, M.A.; D. C. M'Vail, M.B.; Professor Stewart; and Sheriff Berry. After consideration of various applications that had been lodged, the Court appointed Mr. Thomas Gray, B.Sc., of the Glasgow Technical College, as Lecturer on Chemistry to Women Students for one year.

**12th October, 1893.**—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; James Colquhoun, LL.D.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; the Rev. J. W. King, M.A.; D. C. M'Vail, M.B.; Professor Stewart; Professor Ramsay; and Sheriff Berry. The Court appointed Mr. William Crum of Thornliebank and Professor Gairdner to be Governors of the Victoria Infirmary, and the Rev. J. W. King, M.A., and Professor Edward Caird to be Managers of the Western Infirmary—all for the ensuing year. They also appointed Mr. Charles King of Antermony to be Governor of the Stirling Educational Trust till 1st August, 1896, in room of Sir Michael Connal, deceased. Mr. R. T. Younger, LL.B., advocate, was appointed Lecturer on Constitutional Law and History to Arts Students for one year. The Court received and considered the Senate's Scheme of Courses for next session in the Faculty of Medicine. In answer to a report transmitted for the opinion of the Senate, the Court received a report of the Arts Faculty adopted by the Senate, that in their opinion the teaching of Arts subjects to women students should be carried on, not by independent lecturers, but under the superintendence of the Professors, the teaching being divided by the Professors and their assistants. On the application of Dr. Smart, Lecturer on Political Economy, it was agreed to allow him to teach his women students in his class for men in the University, provided the Senate can make suitable arrangements. Minutes of meeting of the Finance Committee of 25th August and 4th October were read and approved, dealing with investments, and narrating the arrangements made by that Committee for the collection of class fees and the payment of assistants' salaries, wages of classroom attendants, and other matters. The Court fixed the dates for payment of professors' salaries for the ensuing year, and directed the Secretary to instruct the factors accordingly. The Court made alterations on the amount of several of the University class fees. In answer to a letter from a Sub-Committee of the Business Committee of the General Council, the Court agreed to raise the sum to be paid to the Clerk of the Council as an honorarium for past work, and fixed the salary of the office for the future. The Court approved of conditions now reported by the Secretary as adjusted between him and the Town Clerk, regarding the gate and pathway to be formed into the West-End Park. The Court considered and approved of a report by the Ordinance Committee upon Draft Ordinances General No. 11 and General No. 12—Regulations for Degrees of B.L. and LL.B.—and instructed same to be forwarded to the Commissioners. The Secretary reported that Professor Cleland had now retired from the Barbour Trust, and that Mr. M'Vail had been assumed as his successor.



**26th October, 1893.**—The Court met. Present—The Principal (in the chair); the Hon. the Lord Provost; James Colquhoun, LL.D.; Sir J. N. Cuthbertson; the Rev. J. W. King, M.A.; D. C. M'Vail, M.B.; Professor Stewart; Professor Ramsay; and Sheriff Berry. On the report of the Ordinance Committee, the Court considered and adjusted observations and amendments on Ordinances General No. 13—Honorary Degrees; No. 14—Boards of Studies in Medicine and Science; No. 15—Examinations, supplementary; No. 16—Degrees in Arts, supplementary; and No. 17—Powers of the Court.

**9th November, 1893.**—The Court met. Present—The Principal (in the chair); the Hon. the Lord Provost; Sir James King, Bart.; James Colquhoun, LL.D.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; the Rev. J. W. King, M.A.; D. C. M'Vail, M.B.; Professor Stewart, and Sheriff Berry. Intimation was received that Hector C. Cameron, M.D., and Sir John N. Cuthbertson had been re-elected by the General Council Assessors in the University Court, to hold office for four years from 20th December, 1893. It was reported from the Senate that the Principal, who had delivered the first part of his Gifford Lectures last winter, desired, owing to other University engagements, to postpone the delivering of the remainder, and had therefore in the meantime formally resigned; and that the Senate had accordingly appointed Professor William Wallace, of Oxford University, to be Gifford Lecturer for two years, beginning with the session 1893-94. On the nomination of Professor Barr, the Court appointed Mr. Alexander B. Dobbie to be "Young Assistant" for the present year. In room of Professor Leishman, retired, the Court appointed Professor Gairdner to be their representative on the General Medical Council for five years from this date. Minute of meeting of Finance Committee of 27th October, 1893, was read and approved, dealing with University investments, the arrangement as to collection of class fees made with the Arts Professors for this session as suggested by the Commissioners, payment of University accounts, applications for return of class fees, and other matters. Dr. J. Hogarth Pringle was appointed Demonstrator in Anatomy at Queen Margaret College for session 1893-94. On the report of the Senate, the Court agreed to recognize for the purpose of graduation in Medicine the lectures of the following teachers in the School of Medicine, Edinburgh, viz., J. A. Thomson, M.A., Zoology; A. P. Aitken, D.Sc.; J. F. King and W. I. Macadam, Chemistry; J. B. Readman, D.Sc., Practical Chemistry; D. N. Paton, M.D., Physiology and Practical Physiology; R. Stockman, M.D., Materia Medica and Therapeutics (Systematic and Practical); A. Bruce, M.D., and R. F. C. Leith, M.B., Pathology and Practical Pathology; F. W. N. Haultain, M.D., and R. M. Murray, M.B., Midwifery; G. A. Gibson, M.D., and R. W. Philip, M.D., Practice of Medicine; and W. Husband, M.D., Vaccination. The Librarian's report for 1892-93 was submitted, and remitted to the Rev. J. W. King and Sir J. N. Cuthbertson for examination.

**14th December, 1893.**—The Court met. Present—The Principal (in the chair); the Hon. the Lord Provost; James Colquhoun, LL.D.; the Rev. J. W. King, M.A.; Sir J. N. Cuthbertson; Professor Ramsay; and Professor Stewart. The Secretary formally intimated the election of

Sir John Gorst as Rector. Intimation was also received that the Senate had re-elected Professor Stewart Assessor in the Court for four years from 28th November, 1893, and had appointed Professor Gairdner in room of Professor Leishman, retired, to hold office till 30th November, 1895, the unexpired period of Professor Leishman's term of office. The Court received the following ladies as a deputation regarding the working of Queen Margaret College, viz.:—Mrs. Campbell of Tullichewan; Mrs. Coats of Woodside, Paisley; Mrs. Parker Smith of Jordanhill; and Mrs. Edward Caird. The deputation made a number of suggestions of an informal character, and it was remitted to a committee of the Court to inquire and report. Representations on the same matter by Professor Young and by some of the students were remitted to the same committee. Minute of meeting of the Finance Committee of 13th December, 1893, was read and approved, authorizing the payment of tradesmen's accounts and dealing with other matters. A motion by the Rev. J. W. King, proposing an alteration in the hour of meeting of the English Literature Class was remitted to the Senate for report. Upon a report of the Ordinance Committee, the Court approved of certain observations and amendments on Draft Ordinance No. 18—Fees of Matriculation, etc. Minute of meeting of Works Committee of yesterday's date was read and approved, dealing with various matters of repairs and painting, etc. The Rev. J. W. King and Sir J. N. Cuthbertson reported upon the Librarian's report for year 1892-93 remitted to them. They noted that among the donors of rare books are the Marquis of Bute, the Earl of Crawford, and Dr. Thomas Reid, who has in addition contributed a sum of £80 to defray the expense of binding a collection of scientific papers and periodicals. The reporters recommended the Court to record their special thanks to Dr. Thomas Reid, believing that if the insufficiency of the funds for the maintenance of the Library were more widely known his generous example would be followed by the graduates of the University and the wealthier citizens of Glasgow. The Court agreed to receive at next meeting a deputation representing the Church of Scotland Training College, the Free Church Training College, and the Educational Institute of Scotland on the subject of the institution within the University of a Chair or Lectureship on Education as a subject for graduation. The meeting appointed a deputation to meet the Commissioners on the subject of a proposed Degree in Agricultural Science. The Court agreed to accept a present for the Museum of Indian birds in skin from an old alumnus and distinguished medical officer, Dr. L. O. Waddell. The Court also agreed to accept a very valuable collection of shells, fossils, etc., bequeathed to the University by the late Dr. Crosskey. The Court instructed their warm thanks to be given to the donors. The meeting reappointed Dr. Robert Perry for another year as the Court's representative on the Board of the Samaritan Hospital. The Court agreed to recognize, for the purposes of graduation, the lectures of Dr. Barclay Ness on *Materia Medica* and *Therapeutics and Practical Pharmacy*; and of Dr. Dawson Turner on *Physics*. The Court reappointed Dr. Yellowlees as Lecturer on *Insanity* for the ensuing year.

11th January, 1894.—The Court met. Present—The Principal (in

the chair); M. P. Fraser, LL.B.; James Colquhoun, LL.D.; D. C. M-Vail, M.B.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; Professor Ramsay; Sheriff Berry; Professor Gairdner; and Professor Stewart. Intimation was received that the Rector had appointed as his Assessor in the Court Matthew P. Fraser, LL.B. The meeting received a deputation consisting of the following gentlemen, who urged upon the Court the advisability of instituting within the University a Chair or Lectureship on Education as a subject of graduation, viz.:—Dr. Mackay, Edinburgh; W. V. Martin, Edinburgh; Dr. Campbell, Falkirk; James Smith, Uddingston; and John G. Kerr, M.A., Glasgow, as representing the Educational Institute of Scotland; the Rev. Dr. John Watt and Dr. David Ross as representing the Church of Scotland Training College; and the Rev. Principal Douglas and Dr. Thomas Morrison as representing the Free Church Training College. The Secretary reported that he had received intimation from the Bellahouston Trustees that they had resolved to grant to the University Court—first, £10,000 towards the erection and equipment of a suitable laboratory and class-room for the Chair of Civil Engineering, provided that a like sum is obtained from other sources, so that at least £20,000 may be available. Further, that if more than £10,000 is otherwise subscribed the Trustees are prepared to increase proportionally their grant up to but not exceeding £12,500; and, second, £5000 towards the erection of a class-room and laboratory for the Chair of Botany—the plans in each case to be submitted for the approval of the Trustees. Finance Committee minute of 10th January was read and approved, dealing with transfers of certain stocks received from the liquidation of Queen Margaret College, income tax on professors' salaries, and other matters. The following were appointed members of the Board of Examiners for the Preliminary Examination for the year from 31st January, 1894, the first four named being also members of the Joint Board:—Professor Ramsay; Professor Bradley; Mr. A. M. Bell; Mr. R. H. Pinkerton; Professor Jack; Professor Murray; Dr. George Merry; Professor Strong, of Liverpool; Mr. H. S. Beresford Webb; and Mr. J. W. Marshall. Intimation was received that Ordinances 39 to 44 had been laid before Parliament. Copies, along with Draft Ordinance, Glasgow No. 6, were remitted to the Ordinance Committee. The Court approved of the appointment of Mr. Robert Buchanan, M.A., B.Sc., as Baxter Demonstrator. A letter was submitted from the Clerk of the General Council, with representations by the General Council to the Commissioners and the Court, on the institution of a Degree in Public Health. After consideration, as the Faculty of Medicine are already preparing a report for the Court on this subject, these documents were remitted to the Senate to be dealt with in that report. The Court received intimation of the following bursaries and prizes:—(1) James Alexander Paterson Bursaries—three in Arts of £40 each, tenable for three years, for students for the ministry in connection with the U.P. Church, and four in Medicine of £30, tenable for four years; (2) George Young Bursary—the income of £1000 for a Bursary in connection with the Engineering Class, conditions to be adjusted by the Senate; (3) the Dill Prize—£25 to accumulate till 1896, to form a prize for graduates in Medicine.

**8th February, 1894.**—The Court met. Present—The Principal (in the chair); the Hon. the Lord Provost; Sir James King, Bart.; M. P. Fraser, LL.B.; James Colquhoun, LL.D.; D. C. M'Vail, M.B.; Sir J. N. Cuthbertson; Professor Ramsay; Professor Gairdner; and Professor Stewart. The following motion, proposed by Mr. M'Vail, and seconded by Mr. M. P. Fraser, was agreed to:—"That the Court requests the opinion of the Senate on the following question—'Should a student who has attended in any class for a session, or considerable part of a session, be permitted to compete for class honours in the class in any succeeding session.'" On the application of Dr. Lindsay Steven, Lecturer on Pathology to Women Students, for leave to take part in the examination of women students in that subject, a report was submitted from the Senate stating that the application seems to be inadmissible, as no distinction could properly be made in practice as to one examiner examining one set of students in preference to another. After discussion it was agreed to hold the matter over till next meeting. A letter from the Senate was read stating that Dr. Murdoch Cameron had been admitted a member of the Senate in the usual form, that he had commenced lecturing on the 9th of January, and that arrangements had been made for providing a full course for students before the final professional examination this year. A copy of Dr. Cameron's Commission was also submitted, and the Court resolved that it should be part of his duties to carry on the work of teaching women students as well as men. The meeting received a report by the Senate on the Rev. J. W. King's motion regarding the hour of meeting of the English Literature Class, stating reasons for not altering the hour, and the Court approved. Mr. M. P. Fraser was appointed one of the Managers of the Western Infirmary in room of Professor Edward Caird, resigned. Finance Committee minutes of 23rd January, 1894, were read and approved, reporting on a meeting the Committee had had with Professor Bower regarding the proposed Botany class-rooms to be erected with the money to be received from the Bellahouston Trustees and the site thereof. Finance Committee minute of 6th February was read and approved, reporting regarding the proposed new Botany class-rooms and the site thereof, new University investments, audit of accounts, fees for further courses, remuneration of Joint Board of Examiners, and other matters. A letter was received from Mr. W. Galbraith Miller regarding the Lectureship on Public Law, etc. The Court resolved to reappoint Mr. Miller as Lecturer on Public Law, etc., and to provide a salary for the Lectureship; it was remitted to a committee to consider and report regarding the teaching of Philosophy of Law and other Law subjects. The Works Committee minute of 7th February was read and approved, dealing with the heating of several rooms at the University, and other matters. The Secretary submitted a letter from Mr. Younger resigning his appointment as Lecturer on Constitutional Law and History, and was directed to write to Mr. Younger requesting him to carry on the work of the Lectureship during the ensuing summer session—the Court to appoint a new lecturer at the beginning of next session. It was resolved to request Professor Macewen to institute a class of Operative Surgery for women students. It was remitted to Professor Stewart to meet Professor Simpson regarding the institution of a class of Medical Jurisprudence for women students. A

letter was read from the Senate reporting that for specific reasons given, special relaxation with regard to the preliminary examination had been granted in several cases under Section XXII., Ordinance No. 11. The Senate having reported in favour of the recognition of J. W. B. Hodsdon, M.D., Edinburgh, and Henry E. Clark, M.R.C.S., Glasgow, it was agreed to recognize the Lectures of both on Surgery, as qualifying for graduation in Medicine. The Court also resolved, in view of Ordinance No. 23, Section IV. (2), to recognize the day lectures and laboratory courses in Electrical Engineering of Professor Andrew Jamieson, of the Glasgow Technical College, as qualifying for graduation in Science. An excerpt minute of Senate recommending the institution of a Lectureship on Embryology was submitted and ordered to be printed. A letter from students at Queen Margaret College was submitted, intimating that a Students' Representative Council had been established, desiring to be officially recognized by the Court. The Secretary was instructed to reply that until the Commissioners lay down regulations under Section III. of the Act of 1889, the Court has no power to recognize any body of students officially as a Representative Council, but that they will always be willing to receive any representation bearing on the interests of the Queen Margaret students, from any student or body of students who may desire to bring their views before the Court. Authority was given to pay over to the Treasurer of the Union the sum of £731 4s. 3d., out of the funds held by the Court for the Union.

**8th March, 1894.**—The Court met. Present—The Principal (in the chair); the Hon. the Lord Provost; M. P. Fraser, LL.B.; James Colquhoun, LL.D.; D. C. McVail, M.B.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; Professor Ramsay; Professor Gairdner; Sheriff Berry; and Professor Stewart. Dr. Lindsay Steven was appointed an examiner in Medicine, with special reference to Pathology, for next examination. A report from the Senate in accordance with Ordinance 12, Section X., was submitted to the Court. The Finance Committee's minute of 6th March was submitted and approved, dealing *inter alia* with the University investments, remuneration of the Joint-Board of Examiners, and the remuneration of assistants. The Court appointed Dr. J. Yule Mackay to be Lecturer on Embryology in the University, the office to be combined with that of Senior Demonstrator in Anatomy. It was agreed to ask a number of gentlemen to form a committee to aid Professor Barr generally to further the scheme for providing a suitable laboratory for the class of Engineering, in accordance with the Bellahouston grant. A report of the Ordinance Committee of 20th February was read and approved, and the observations and amendments on Draft Ordinance, Glasgow No. 6—Libraries and Museums—therein recommended, were ordered to be sent to the Commissioners. A number of new Draft Ordinances were remitted to the Ordinance Committee for report. The Works Committee minute of 14th February, recommending that an iron railing should be substituted for the present wooden fence in University Avenue, was read and approved. The Court approved of Mr. R. T. Younger's nomination of Mr. William Harvey, B.A., LL.B., advocate, as his deputy, to deliver his lectures on Constitutional Law and History during the ensuing summer session. The question of the appointment of examiners



in Science was remitted for consideration and report, and also the appointment of an assistant for the Hunterian Museum. The following further grants from the Bellahouston Trustees were intimated:—(1) A capital grant of £5000 towards the erection and equipment of buildings at Queen Margaret College for the medical and scientific instruction of the students attending there, provided the University Court is willing to undertake the pecuniary responsibility of erecting the buildings in question. (2) A capital grant of £500 and an annual grant of £100, the latter to be continued during the pleasure of the Trustees, on account of the University Library, to be applied in both cases at the sight of the University Court, or of some one appointed by it, in the purchase of scientific periodical literature for the Library. (3) A capital grant of £500 on account of the Hunterian Museum, with special reference to the improvement and preservation of its pathological section; and an annual grant of £100, to be continued during the pleasure of the Trustees, for the salary of an underkeeper in the pathological department and the expenses connected therewith, to be expended in both cases at the sight of the University Court. (4) A capital grant of £5000 towards the establishment of a Chair of Geology, as soon as intimation shall be received from the University Court that complete and satisfactory arrangements have been made for this purpose. (5) Two annual grants of £100 each, to be continued during the pleasure of the Trustees, for the maintenance, improvement, and supplement of the apparatus and instruments in connection with the Chairs of Natural Philosophy and Chemistry, the expenditure to be subject to the approval of the University Court; and, further, on certain conditions, two capital sums of £300 each, with a view to the acquisition by the University of apparatus in connection with these Chairs. (6) A capital grant of £400 on account of the Chair of Physiology, for the improvement and supplement of the apparatus connected therewith, on the understanding that the same will then become the property of the University, the expenditure to be subject to the approval of the University Court. (7) A capital grant of not less than £750 and not more than £1000, as may be eventually fixed by the Trustees, on behalf of the Chair of Astronomy, for the renovation, improvement, and supplement of the instruments at present in the Observatory, and an annual grant of £50 for five years for providing skilled and other labour to assist in improving the condition and general efficiency of the Observatory, the whole expenditure to be subject to the approval of the University Court. In answer to a request from the Clerk of the General Council, the Secretary was instructed to lend the Deed of Gift of Queen Margaret College, that a copy might be taken. With regard to the teaching of Operative Surgery to women students, the Court approved of the institution of a separate class, to be conducted by Professor Macewen's assistant in the recess during March and April. A report of Committee on the question of education as a subject of graduation was submitted and approved. The report recommends the institution of a Lectureship on Education in the University. An application by Professor Ramsay for the use of the Bute Hall on 17th inst. for a photographic representation was granted. The Court agreed to recognize the lectures of John Macdonald Brown, M.B., C.M., Edinburgh, on Anatomy and Practical Anatomy; of Charles W. Cathcart, M.B., C.M., Edinburgh, on Surgery; of John S. McLaren, M.B., C.M.,



Edinburgh, on Surgery; and of Robert T. Kent, M.A., F.R.C.S., St. Mungo's College, Glasgow, on Anatomy, all as qualifying for graduation in Medicine in this University. The Court approved of the Senate's action in giving effect to a recommendation of the Students' Representative Council, that the course of Physics for medical students should be held during the winter session. The course, however, will be held this summer, to meet the case of students who began last winter. The Court appointed Mr. Magnus Maclean Lecturer for the summer session. The Court appointed Messrs. John Brown, George A. Gibson, and R. M. Burrows Lecturers on Latin, Mathematics, and Greek respectively, for the approaching summer session, and remitted it to the Senate to make arrangements for the classes similar to those made last year.

17th April, 1894.—The Court met. Present—The Principal; the Hon. the Lord Provost; Sir James King, Bart.; M. P. Fraser, LL.B.; James Colquhoun, LL.D.; Rev. J. W. King, D.D.; D. C. McVail, M.B.; Hector C. Cameron, M.D.; Sir J. N. Cuthbertson; Professor Ramsay; Professor Gairdner; and Professor Stewart. The Court resolved to appoint, under Ordinance No. 11, General No. 6, Lecturers in French and German, and remitted it to a committee to make the necessary arrangements for the institution of the courses. A letter from the Commissioners was read regarding the arrangements to be made for the application of a lapsed foundation in Divinity named the Tarsappie Bursary, applicable to Edinburgh, St. Andrews, and Glasgow Universities. A report of the Committee on the management of Queen Margaret College was submitted, and it was resolved to take up consideration of the same at a future meeting. Two applications by students for leave to present themselves for the final examination for the degree of B.Sc. in Engineering, under Ordinance No. 23, Section V., were granted. The Court dealt with the question of the selection of an architect for the proposed Engineering Laboratory and Botany Class buildings, and considered reports on this matter from a special committee of selection, and from the Engineering Laboratory Committee; it was remitted to the Works Committee, with the addition of the Lord Provost, to make further inquiries with the view of enabling the Court to decide as to the selection of an architect. The Court had under consideration, in detail, various of the Bellahouston grants announced at last meeting. With a view to carrying out the purposes of the capital grant of £5000 towards the erection and equipment of buildings at Queen Margaret College for the medical and scientific instruction of the students attending there, the Works Committee was authorized to appoint an architect to prepare plans. Further, the Secretary was instructed to intimate to the Bellahouston Trustees that the Court are willing to undertake the pecuniary responsibility required by the Trustees. Regarding the Bellahouston grant to the Library, the Court resolved to wait before taking any steps till the Draft Ordinance appointing the new Library Committee becomes law. In consequence of the Bellahouston grant of £5000, on behalf of the Chair of Geology, a committee was appointed to consider and bring up a scheme for the establishment of the Chair in question. A letter from Professor M'Kendrick was read, stating that he desired to hand over to the University as a gift, the large and valuable collection of physiological apparatus which he has added from time to time to the

Physiological Laboratory, at his own expense, since his appointment to the Chair in 1876, and the Court desired to minute their high appreciation of Dr. M'Kendrick's very generous gift, and authorized the Principal to convey to him the cordial thanks of the University. With reference to the grant of the Bellahouston Trustees in favour of the Observatory, it was remitted to the Works Committee to prepare a report of what is required in the way of renovation, improvement, and supplement of the observatory instruments for the guidance of the Bellahouston Trustees. On the recommendation of Professor Simpson, the Court appointed Dr. T. Kennedy Dalziel, M.B., C.M., as his assistant in Medical Jurisprudence, with special reference to the teaching of women students. The Court granted the use of a room at Queen Margaret College for the first annual business meeting of Queen Margaret Lecture Guild, to be held on Friday, 22nd June. The Court appointed curators to take part with curators appointed by the Managers of the Western Infirmary in the appointment of a Professor of Pathology, and also authorized the minute of agreement with the Western Infirmary to be signed. The Court appointed Mr. Bathgate, Preliminary Examiner in Italian; Professor Strong, as Examiner in French for Degrees in Arts; and Mr. R. T. Younger, as Examiner in Law for Degrees in Arts, to conduct the examination along with the Professor of Law. A report from the Senate regarding the Diploma in Public Health was submitted, and it was remitted to a committee to consider and report regarding the laboratory and other requirements which the Commissioners indicate must be provided prior to the institution of a degree in this subject. There were submitted for approval regulations for examinations for graduation in Medicine, drawn up by the Senate, and the Court approved of the regulations for the ensuing session. The Court approved of regulations for examinations for graduation in Arts drawn up by the Senate. There was submitted a report upon the fees in various classes, including fees for further courses, and the report was submitted to the Finance Committee with power to adjust and publish. A number of Draft Ordinances were remitted to the Ordinance Committee. On the recommendation of Professor Bower, the Court appointed Mr. J. C. Willis, M.A., of Caius College, Cambridge, and Mr. W. H. Lang, as senior and second assistants in the Botany Class; and on the recommendation of Professor Barr, the Court appointed Mr. James D. Mackinnon as assistant in the class of Civil Engineering. A report by the Senate of cases of special relaxation in the case of the preliminary examination, under Ordinance No. 11, Gen. No. 6, Section XXII., was submitted. The Court authorized payment to the Treasurer of the Union of certain balances at present in the Court's hands. A letter of resignation from Professor Edward Caird was presented. The Court agreed to accept of the resignation as from October 1st, and instructed the Secretary to advertise the vacancy of the Chair. Intimation was received and draft regulations submitted of a prize or bursary, to be founded in connection with the Naval Architecture Class, as a memorial of the late Alexander Carnegie Kirk, LL.D., formerly President of the Institution of Engineers and Shipbuilders in Scotland. The Court appointed Dr. David Ross, Rector of the Church of Scotland Training College, as Lecturer on Education for five years from 1st October next.

10th May, 1894.—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; M. P. Fraser, J.L.B.; James Colquhoun, L.L.D.; Rev. J. W. King, D.D.; D. C. M'Vail, M.B.; Hector C. Cameron, M.D.; Professor Ramsay; Professor Gairdner; and Professor Stewart. The Secretary intimated that he had received a letter from Dr. David Ross accepting the position of Lecturer on Education, and had also received a syllabus of the course of lectures proposed by Dr. Ross, which he had transmitted to the Senate. A motion by Mr. M'Vail, seconded by Sir James King, with reference to Clinical Examinations was, after discussion, adopted in the following modified form, viz.:—"That physicians and surgeons in the hospitals of Glasgow whose clinical teaching qualifies for graduation in Glasgow University may be invited by the Court to be Clinical Examiners in the University." A representation by the Medical Lecturers at Queen Margaret College regarding the terms of their appointment was submitted, and the Secretary was instructed to reply that the matter is at present under consideration. The representation was then referred to the Queen Margaret Committee for consideration and report. The present Lecturers in Queen Margaret College were reappointed for the term of one year from 1st October next. A report of Committee on the Teaching of Philosophy of Law, etc., was submitted, and, at the request of the chairman of that committee, remitted to them for further consideration, with power to consult the Professors of Law and Conveyancing, and to formulate arrangements for insertion in the Calendar. A report by Mr. J. Oldrid Scott, architect, London, on the proposed Engineering and Botanical Laboratories and Class-rooms was submitted, and instructions given to the Secretary to write for a sketch plan and estimate. A minute of meeting of Finance Committee of 19th April was read and approved, dealing with transfers of investments received from Queen Margaret College, abatement of rent on College farms, arrears of teinds, new investments, table of University fees, and other matters. A minute of meeting of Finance Committee of 8th May was read and approved, dealing with discharges for the Bellabouston grants, dates of payment of professors' salaries, new investments, professors' assistants, and other matters. The Principal moved, that in terms of the Committee's recommendation Dr. William R. Jack be appointed assistant to the Professor of Physiology for this summer. The motion was carried, Mr. M'Vail dissenting for the following reasons:—"That the appointment was proposed by a committee which, in his opinion, have not the power to recommend assistants, and that as the whole subject of appointing additional assistants to the professors and the question of their remuneration is now being considered, in his opinion the whole should be dealt with at one and the same time." A letter from Professor Murdoch Cameron was read regarding the appointment of Assistants in Midwifery and remitted to the Senate for report. Minutes of meetings of Works Committee of 17th and 19th April, dealing with the Master of Works' report on summer work and other matters, was read and approved. A report by the Ordinance Committee, dealing with a number of Draft Ordinances relating to Bursaries and Scholarships, was submitted and adopted, and the relative observations and amendments ordered to be transmitted to the Commissioners. Considera-

tion of a report by the Senate on the recognition of the course of Physics in Melbourne University as qualifying for graduation in Medicine was deferred. A report of Committee on the appointment of an assistant in the Hunterian Museum was submitted and adopted, and the Secretary was instructed to advertise for an underkeeper for the pathological section of the Museum, in conformity with the terms of the Bellahouston grant. On the motion of Professor Ramsay, it was resolved to delay taking any steps towards the appointment of Lecturers on French and German Language and Literature in the meantime, with a view to appointing lecturers in these subjects, to enter on their duties on 1st October, 1895. An application for the loan of pictures and antiquities for the Old Glasgow Exhibition was remitted to the Principal and Professor Stewart, with powers. An application by the Educational Institute of Scotland for the use of rooms at the University during part of next Christmas recess for their annual congress, to be held then in Glasgow, was granted.

#### XIV.—FINANCIAL STATEMENT OF THE UNIVERSITY FOR THE YEAR 1892-93.

ANNUAL SALARIES (EXCLUSIVE OF CLASS FEES <sup>1</sup>) ATTACHED TO OFFICE OF PRINCIPAL, AND TO THE PROFESSORSHIPS, ASSISTANTSHIPS, LECTURESHIPS, AND EXAMINERSHIPS IN THE UNIVERSITY, BY ORDINANCE OF THE UNIVERSITIES COMMISSIONERS (1858) AND DEEDS OF FOUNDATION; AND ANNUAL PENSIONS TO RETIRED PROFESSORS.

##### PRINCIPAL.

Salary, . . . . . £983 7 10

##### FACULTY OF ARTS.

	Salaries of Professors.	Salaries of Assistants or Demonstrators.	Allowances for Class Expenses.
Logic, . . . . .	£286 11 2	.....	.....
Moral Philosophy, . . . . .	281 2 2	.....	.....
Natural Philosophy, . . . . .	299 6 8	£235 0 0	£100 0 0
Greek, . . . . .	289 9 0	100 0 0	.....
Humanity, . . . . .	289 9 0	100 0 0	.....
Mathematics, . . . . .	292 0 0	100 0 0	.....
Astronomy, . . . . .	230 11 9	.....	.....
Civil Engineering, . . . . .	471 16 9	147 0 0	.....
English Literature, . . . . .	200 0 0	.....	.....
Naval Architecture, . . . . .	500 0 0	.....	.....
	£3,140 6 6	£682 0 0	£100 0 0

<sup>1</sup> In 1892-93, by an arrangement made at the instance of the Universities Commissioners, the Fees of the Classes of Logic, Moral Philosophy, Natural Philosophy, Greek, Humanity, Mathematics, and English Literature were drawn by the University Court, and in lieu thereof the sum of £5,389 1s. 8d. was distributed among the Professors of these subjects to account of their fixed emoluments, and an additional sum of £1,120 among their Assistants. The Fees of all the other classes were drawn, as usual, by the Professors. An allowance of £25 was made by the University Court for an Assistant to the Professor of Oriental Languages.

## FACULTY OF THEOLOGY.

	Salaries of Professors.	Salaries of Assistants or Demonstrators.	Allowances for Class Expenses.
Divinity, . . . . .	£405 19 11	.....	.....
Oriental Languages, . . . . .	299 19 11	... ..	.....
Ecclesiastical History, . . . . .	335 16 6	.....	.....
Biblical Criticism, . . . . .	506 9 9	.....	... ..
	<hr/>		
	£1,548 6 1		

## FACULTY OF LAW.

Law, . . . . .	£310 0 0	.....	.....
Conveyancing, . . . . .	105 0 0	.....	.....
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	£415 0 0		

## FACULTY OF MEDICINE.

Medicine, . . . . .	£270 0 0	.....	.....
Anatomy, . . . . .	250 0 0	.....	£200 0 0
Natural History, . . . . .	209 16 9	.....	.....
Surgery, . . . . .	94 2 7	.....	.....
Midwifery, . . . . .	100 0 0	.....	.....
Chemistry, . . . . .	200 0 0	£200 0 0	70 0 0
Botany, . . . . .	209 16 9	.....	.....
Materia Medica, . . . . .	100 0 0	25 0 0	50 0 0
Institutes of Medicine, . . . . .	150 0 0	106 2 6	.....
Forensic Medicine, . . . . .	100 0 0	25 0 0	35 0 0
Clinical Surgery, . . . . .	112 13 4	.....	.....
Clinical Medicine, . . . . .	112 13 4	.....	.....
	<hr/>	<hr/>	<hr/>
	£1,909 2 9	£356 2 6	£355 0 0

## LECTURERS.

Waltonian, . . . . .	£93 6 2
Gifford, . . . . .	553 15 5
Honyman-Gillespie, . . . . .	200 0 0
Summer Session in Arts, . . . . .	75 0 0
	<hr/>
	£922 1 7

## EXAMINERS FOR DEGREES, &amp;c.

Eight Preliminary Examiners, . . . . .	£230 11 3
Three in Arts, . . . . .	240 0 0
Twelve in Medicine, . . . . .	452 7 6
Three in Law, . . . . .	63 0 0
Three Additional Examiners in Arts, . . . . .	90 0 0
	<hr/>
	£1,075 18 9

## PENSIONS.

Four Retired Professors, . . . . .	£2,633 13 0
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## SUMMARY.

The Principal, . . . . .	£983 7 10
Arts Chairs, . . . . .	3,140 6 6
„ „ (additional in lieu of Fees), . . . . .	5,389 1 8
„ Assistants, . . . . .	682 0 0
„ „ (additional), . . . . .	1,120 0 0
„ Class Expenses, . . . . .	100 0 0
Divinity Chairs, . . . . .	1,548 6 1
„ Assistant, . . . . .	25 0 0
Law Chairs, . . . . .	415 0 0
Medical Chairs, . . . . .	1,909 2 9
„ Assistants, . . . . .	356 2 6
„ Class Expenses, . . . . .	355 0 0
Lecturers, . . . . .	922 1 7
Examiners in Arts, Medicine, and Law, . . . . .	1,075 18 9
Retired Professors, . . . . .	2,633 13 0
	<hr/>
	£20,655 0 8

NOTE.—To the Principalship and each of the Chairs founded before 1800 an official residence is attached, and also some small allowances for Taxes, Lighting, House Repairs, etc., amounting in all to about £18.

STATEMENT OF THE INCOME AND EXPENDITURE OF THE  
UNIVERSITY FOR THE YEAR 1892-93.

The College Revenue in 1892-93 was derived—(a) From Teinds—arising from grants—by James, Archbishop of Glasgow, in 1557; by James VI., in 1577 and 1618; by Charles I., in 1630; by Charles II., in 1664 and 1670. (b) From Fen-Duties, etc., of lands granted by James, Lord Hamilton, in 1459; William and Thomas Arthurlie, 1466; Queen Mary, 1563; of the lands, etc., of the Friars Preachers, granted by Queen Mary in 1566 to the Town for pious uses, and conveyed by the Town, under Act of Scottish Parliament in 1572, to the College; and from other ancient foundations. (c) From proceeds of investments of the surplus rents of the Archbishoprick of Glasgow, from 1694 to 1839. The lease of the Archbishoprick was granted first by William III., in 1690, for nineteen years, for payment of the then debts of the University, and other University purposes. The lease was renewed by successive sovereigns till 1825, when £100 per annum from the Archbishoprick was added to the salary of the Regius Professor of Botany; and £800 per annum was granted for general University purposes till 1839. In 1841 the Crown applied the £800 per annum to salaries for certain chairs in the patronage of the Crown. (d) From proceeds of investments from time to time of the annual surplus of income over expenditure. (e) Parliamentary Grants. (f) Fees from seven Arts Classes.



The gross revenue derived from these sources amounted to £24,507 19s. 2½d. But out of this were paid Ministers' Stipends (£1,688 10s. 6d.), Income and Property Tax (£181 8s. 2½d.), Bursaries (£219 18s. 11d.), leaving nett income £22,418 1s. 7½d., of which £3,656 2s. 7d. has been allocated at various times from 1577 to 1817 to salaries of Principal and Professors, and after a further payment of £13,329 3s. 4d. out of the Parliamentary Grant and Class Fees to the maintenance of the Teaching Staff and Examiners, and placing £1,000 to a suspense account to meet contingent claims during Session 1892-93, but not yet paid, there remained a balance of £4,432 15s. 8½d., i.e., £707 for the University Library, and £3,725 15s. 8½d. for general purposes, which was transferred to the General University Fund as stated below.

### INCOME OF THE UNIVERSITY DESTINED BY DEED, STATUTE, OR ORDINANCE.

#### I. For Salaries of Principal, Professors, and Lecturers :—

(1.) From Teinds and Endowments under Charters of James VI., Charles I., and Charles II., etc., as stated above, .	£3,656	2	7
(2.) From Parliamentary Grant, under Ordinance 22, . . .	2,750	17	5
(3.) From Parliamentary Grant and Class Fees, . . .	5,389	1	8
(4.) From Parliamentary Grant for Summer Lecturers, . .	75	0	0
(5.) From Deanery of Chapel Royal (Chair of Bib. Crit.), .	359	9	9
(6.) Foundation of Conveyancing Chair, paid yearly by Faculty of Procurators, .	105	0	0
(7.) Yates (Shuna) Fund, . .	0	0	0
(8.) M'Turk's Foundation, . .	13	0	11
(9.) John Elder Foundations, .	696	16	9
(10.) A recent Foundation, . .	42	9	1
(11.) Foundation of Clinical Surgery Chair, . . .	112	13	4
(12.) Foundation of Clinical Medicine Chair, . . .	112	13	4
(13.) The Black Bequest (Chair of Biblical Criticism), . .	*147	0	0
(14.) Waltonian Lectureship, .	93	6	2
(15.) Gifford Lectureship, . .	553	15	5
(16.) Honyman-Gillespie Lectureship, .	200	0	0
Carry forward, . . . . .	£14,307	6	5

\* Exclusive of Income Tax.

Brought forward, . . . . . £14,307 6 5

II. For Class Assistants and Class Expenses :—

(1.) From General University Fund for the Chairs of Natural Philosophy, Anatomy, Che- mistry, Materia Medica, and Forensic Medicine, under Ordinance 22, . . .	£455 0 0	
(2.) From General University Fund for Assistant in Hebrew Class, . . . . .	25 0 0	
(3.) From Parliamentary Grant for Class Assistants, under Ordinance 22, . . . . .	650 0 0	
(4.) From Parliamentary Grant and Class Fees, . . . . .	1,120 0 0	
(5.) From the Black Bequest for the "Young" Assistant, . . .	147 0 0	
(6.) From the Arnott and Thomson Demonstratorship Fund, . . .	135 0 0	
(7.) From the Muirhead Demon- stratorship Fund, . . . . .	106 2 6	
	<hr/>	2,638 2 6

III. For Non-Professorial Examiners :—

(1.) From Parliamentary Grant, under Ordinances 14 and 15, . . .	£480 0 0	
(2.) From Parliamentary Grant, . . .	230 11 3	
(3.) From General University Fund, . . . . .	320 7 6	
(4.) From Foundations, . . . . .	45 0 0	
	<hr/>	1,075 18 9

IV. For Retired Professors :—

From Parliamentary Grant, under Ordinance 26, . . . . . 2,633 13 0

Total Income destined to Maintenance of Teaching Staff and Examiners, as above, . . . . .	£20,655 0 8
Total Disposable Income (£11,981 15s. 9½d.) as below, less £800 7s. 6d. (i.e., £480 for Class Assistants and Class Expenses, and £320 7s. 6d. for Ex- aminers), charged below against General Uni- versity Fund, . . . . .	11,181 8 3½
Total University Income, . . . . .	<hr/> £31,836 8 11½ <hr/>

# INCOME AND EXPENDITURE OF GENERAL UNIVERSITY FUND, 1892-93.

## INCOME.

1. Balance of Revenue from Teinds, etc., under Charters of James VI. and Charles I., and Capitalized Savings, as stated p. 457, . . . . .	£3,725	15	8½
2. Matriculation Fees, . . . . .	2,121	15	0
3. Graduation and Examination Fees, . . . . .	4,457	9	6
4. Library Subscriptions, . . . . .	71	18	6
5. General Council Registration Fees, . . . . .	221	0	0
6. Compensation for Stationers' Hall Privilege, . . . . .	707	0	0
7. Do. Portion of Grant unexpended last year, . . . . .	29	10	10
8. Income of Legacies for Library, etc., . . . . .	61	12	3
9. Special Donation to Library by Dr. Thos. Reid, . . . . .	80	0	0
10. Students' Catalogue, . . . . .	5	14	0
11. Treasury Grant for Maintenance of Buildings, . . . . .	500	0	0
	<hr/>		
	£11,981	15	9½
	<hr/>		

## EXPENDITURE.

I. <i>University Court and Senate</i> —			
1. Secretary to the University Court, and Outlays, . . . . .	£241	8	3
2. Clerk of Senate, . . . . .	183	15	0
3. Assistant Clerks and Outlays, . . . . .	377	0	0
	<hr/>		
	£802	3	3
II. <i>General Council</i> —			
1. Registration, etc., . . . . .	£87	7	0
2. Clerk's Salary, . . . . .	100	0	0
3. Printing and Outlays per Clerk, . . . . .	380	0	0
	<hr/>		
	567	7	0
III. <i>Business, etc.</i> —			
1. Factor's Salary and Outlays, . . . . .	£480	10	5
2. Auditor, . . . . .	21	0	0
	<hr/>		
	501	10	5
IV. <i>Libraries</i> —			
1. Librarians' Salaries, . . . . .	£700	16	0
2. To Account of New Catalogue, . . . . .	76	2	0
3. Books and Binding, . . . . .	1,008	3	1
4. Stationery, etc., . . . . .	4	5	7
5. Divinity Hall Library, . . . . .	43	7	0
6. Incidental Expenses, . . . . .	5	0	0
	<hr/>		
	1,837	13	8
V. <i>Hunterian Museum</i> , . . . . .	314	10	0
VI. <i>Observatory</i> , . . . . .	211	7	2
	<hr/>		
Carry forward, . . . . .	£4,234	11	6

	Brought forward, . . . . .	£4,234	11	
VII.	<i>Buildings—</i>			
	1. Repairs, . . . . .	£1,076	17 11	
	2. Lighting, . . . . .	278	9 0	
	3. Heating and Ventilating, . . . . .	696	7 8	
	4. Water, . . . . .	134	13 4	
	5. Insurance, . . . . .	238	18 9	
				2,425 6 8
VIII.	<i>Service, Cleaning, and Maintenance of Grounds,</i>			1,173 15 4
IX.	<i>Class Assistants and Class Expenses—</i>			
	1. Allocated by Commissioners' Ordinance, . . . . .	£455	0 0	
	2. Allowed in other Classes, . . . . .	237	0 9½	
		£692	0 9½	
	Not expended, . . . . .	0	6 0	
				691 14 9½
X.	<i>Printing, Stationery, and Advertising—</i>			
	1. Printer's Accounts, . . . . .	£310	4 11	
	2. Newspaper Accounts, . . . . .	262	11 3	
	3. Examination Books, etc., . . . . .	112	9 3	
				685 5 5
XI.	<i>Prizes and Medals, . . . . .</i>			190 2 11
XII.	<i>Compensation for Graduation Fees under Commissioners' Ordinance, . . . . .</i>			50 0 0
XIII.	<i>Gratuities, . . . . .</i>			36 10 0
XIV.	<i>Contribution to Glasgow Police, . . . . .</i>			21 0 0
XV.	<i>Public Burdens, etc., . . . . .</i>			423 16 10
XVI.	<i>Law Examiners, . . . . .</i>			63 0 0
XVII.	<i>Medical Examiners, . . . . .</i>			212 7 6
XVIII.	<i>Extra Examiners (Share), . . . . .</i>			45 0 0
XIX.	<i>Expenses connected with Examinations, . . . . .</i>			39 17 10
XX.	<i>Interest on Loan from late Mr. Randolph's Trust, . . . . .</i>			877 10 0
XXI.	<i>Chapel, . . . . .</i>			91 6 10½
XXII.	<i>Apparatus for Engineering Department, . . . . .</i>			80 8 6
XXIII.	<i>Miscellaneous, . . . . .</i>			76 15 8
	Total General Fund Expenditure, . . . . .	£11,409	9 10	
	Surplus, . . . . .	572	5 11½	
	Together, equal to Income, . . . . .	£11,981	15 9½	

INCOME OF TRUST FUNDS FOR BURSARIES, SCHOLARSHIPS,  
AND PRIZES.

1.	From Capital Funds in charge of the University, . . . . .	£7,224	3 7
2.	From Estate managed by Balliol College, Oxford— 5 Exhibitions, at £80, . . . . .	400	0 0
3.	From Funds in the hands of the Town Council, Merchants' House, and Trustees, about . . . . .	5,670	0 0
		£13,294	3 7

## CLASS FEES.

## FACULTY OF ARTS.

Logic and Rhetoric, . . . . .	£585	18	0
Moral Philosophy, . . . . .	635	5	0
Natural Philosophy, . . . . .	1,009	1	0
Greek, . . . . .	959	3	6
Humanity, . . . . .	1,046	17	0
Mathematics, . . . . .	1,164	9	0
Practical Astronomy, . . . . .	13	13	0
Civil Engineering and Mechanics, . . . . .	287	14	0
English Language and Literature, . . . . .	590	2	0
Naval Architecture, . . . . .	216	6	0
Political Economy, . . . . .	18	18	0
Summer Session, { Latin, . . . . .	12	12	0
{ Greek, . . . . .	16	16	0
{ Mathematics, . . . . .	21	0	0

## FACULTY OF DIVINITY.

Divinity, . . . . .	£249	0	0
Oriental Languages, . . . . .	180	12	0
Ecclesiastical History, . . . . .	167	1	0
Divinity and Biblical Criticism, . . . . .	160	13	0

## FACULTY OF LAW.

Roman Law and Law of Scotland, . . . . .	£417	18	0
Conveyancing, . . . . .	310	16	0
Public Law, . . . . .	86	12	6

## FACULTY OF MEDICINE.

Practice of Medicine, . . . . .	£531	0	8
Anatomy, . . . . .	1,444	0	0
Natural History, . . . . .	610	0	0
Surgery, . . . . .	939	9	7
Midwifery, . . . . .	545	2	0
Chemistry, . . . . .	1,113	0	0
Botany, . . . . .	606	18	0
Materia Medica, . . . . .	871	0	0
Physiology, . . . . .	940	16	0
Forensic Medicine, . . . . .	495	12	0
Clinical Surgery, . . . . .	272	1	1
Clinical Medicine, . . . . .	480	17	2
Lectures on the Eye, . . . . .	14	14	0
Insanity, . . . . .	54	12	0
Pathology, . . . . .	649	19	0

## APPENDIX—I.

## LIST OF MEMBERS

INCLUDED IN

## THE REGISTER

OF

## THE GENERAL COUNCIL

FOR THE YEAR COMMENCING 1st JANUARY, 1894,

WITH ABBREVIATED ADDRESSES, ETC.

*N.B.*—So far as information has been available down to the time of publishing the Calendar, addresses, etc., have been corrected, and names of deceased Members removed. Members are requested to intimate to the Registrar any change of designation (*i.e.* profession or calling), or of permanent address. Representatives of deceased Members are also requested to make intimation, in order that the names of such Members may be removed.

- Abdurahman, Abdullah, M.B., Cape Town, S. Af.  
 Abercrombie, Peter H., M.B., Meikleriggs, Paisley  
 Abercromby, R., M.A., minister, Norwich  
 Acworth, W., M.A., minister, South Stoke  
 Adam, Alex., M.B., Glasgow  
 Adam, Basil J., M.B., 3 W. Garden st., Glasgow  
 Adam, David S., B.D., minister, F.C. Manse, Kelso  
 Adam, Hector M., B.D., minister, Aberdeen  
 Adam, Jas., M.A., teacher, 74 John st., Glasgow  
 Adam, James, M.A., M.B., Hamilton  
 Adam, James A., M.A., U.P. minister, Ellon  
 Adam, John, M.B., 12 George street, Paisley  
 Adam, John, M.B., 2 Knowe ter., Pollokshields  
 Adam, John E., M.B., Broad street, Denny  
 Adam, John W., M.B., Stepps rd., near Glasgow  
 Adam, Peter, B.D., prob., 39 Bank st., Greenock  
 Adam, Robert H., M.A., M.D., Paisley  
 Adam, Thomas, M.A., minister, Cumbernauld  
 Adam, Thomas B., M.D., 37 Church st., Brechin  
 Adam, William, M.A., teacher, Glasgow  
 Adam, William John, M.B., Hillhead, Glasgow  
 Adam, William T., M.B., Workington  
 Adams, James A., M.D., 5 Woodside cr., Glasgow  
 Adams, John, M.A., B.Sc., teacher, Aberdeen  
 Adams, J., B.D., prob., Holburn st., Aberdeen  
 Adams, John, M.B., 8 Melrose street, Glasgow  
 Adams, J. E., B.D., asst. min., 1 Dalmeny rd., Leith  
 Adams, William S., M.D., Jersey  
 Adamson, James, M.D., Hetton-le-Hole  
 Adamson, James, M.A., minister, Maree, N.S.W.  
 Adamson, J. G., M.D., Lurgan, Armagh  
 Adamson, W. F., M.A., minister, Galashiels  
 Addie, John, M.A., minister, Perth  
 Affleck, John, M.A., D.Sc., Inspector of Chemical Works, Woolton  
 Agnew, Alex. P., M.B., Burnley, Lancashire  
 Agnew, J. M., minister, Longhope, Orkney  
 Agnew, Rbt. R., M.A., tch., 11 Hopetoun pl., Glas.  
 Aiken, Jas., M.A., stud., 5 Glenavon ter., Partick  
 Aiken, James, M.A., writer, Dalmoak  
 Aikman, J. B., M.A., writer, Dalmoak  
 Aikman, Charles Brown, writer, Glasgow  
 Aikman, Chas. M., M.A., D.Sc., chemist, Stirling  
 Aikman, John, M.D., Guernsey  
 Ainsworth, William T., M.B., 91 King st., Crieff  
 Aird, Alex. W., M.B., Newmilns  
 Aird, Hugh, M.A., D.D., minister, Brechin  
 Aird, Robert, M.A., tch., Tarbert, Loch Fyne  
 Aitken, David, M.A., teacher, Paisley  
 Aitken, Jas., M.A., stud., 15 Glasgow st., Hillhead  
 Aitken, James, M.B., 39 Gibson street, Hillhead  
 Aitken, James, M.B., 12 Dalhousie st., Glasgow  
 Aitken, Jas. A., M.B., 29 S. Cumberland st., Glas.  
 Aitken, James R., M.A., min., 255 P'shaws rd., Gl.  
 Aitken, John, M.D., Buckhaven  
 Aitken, John R., M.A., stu., 2 Woodlands ter., Gl.  
 Aitken, P. H., M.A., B.Sc., B.D., min., London  
 Aitken, R., B.L., writer, Edinburgh  
 Aitken, Robert Easton, C.A., Glasgow  
 Aitken, Robert Y., M.B., Carsehead, Dalry, Ayrsh.  
 Aitken, W. B., M.B., Carsehead, Dalry  
 Aiton, Thomas, B.A., minister, Livingston  
 Aiton, W., B.L., law agt., 115 St. Vincent st., Glas.  
 Alexander, Andrew, M.A., surgeon, London, E.C.  
 Alexander, Arch., M.A., min., Spittal, Berwick  
 Alexander, Arch. B. D., M.A., min., Langbank  
 Alexander, Archibald S., M.D., Plymouth  
 Alexander, Charles A., M.B., Denny  
 Alexander, D. R., B.D., prob., Clarkfield, Partick  
 Alexander, Gilchrist G., M.A., law stu., Middle Temple, London  
 Alexander, Jas., M.B., Waterside house, Fenwick  
 Alexander, John, M.A., minister, Partick  
 Alexander, John, M.A., minister, Pitcairn, Perth  
 Alexander, J. B., M.A., min., Hawaiian Islands  
 Alexander, Peter, M.A., teacher, Glasgow  
 Alexander, Robert, minister, Dunfermline  
 Alexander, R., M.A., teacher, Glasgow  
 Alexander, Samuel, M.D., Larkhall  
 Alexander, Samuel P., M.D., Southsea



- Alexander, T. G., M.B., Glasgow  
 Alexander, Walter, M.A., student, Millerston  
 Alexander, W. H. M., M.B., Dunvaira, Bargeddie  
 Alexander, William, M.D., Dundonald  
 Alexander, W. M., B.Sc., B.D., M.D., Bombay  
 Alison, Sir A., Bart., LL.D., K.C.B., lt.-gen., London  
 Alison, Archibald, minister, Prestwick  
 Alison, Arthur, advocate, Edinburgh  
 Alison, George, minister, Kilbarchan  
 Alison, J., M.A., D.D., min., Newington, Edinburgh  
 Alison, Samuel S., M.A., minister, Belfast  
 Allan, Arthur, M.A., student, Manse, Fairlie  
 Allan, Arthur W., B.L., law cl., Muirfield, P'sh'ds  
 Allan, C., M.A., min., E. Bank U.P. Manse, Hawick  
 Allan, Geo. F., LL.B., writer, Hillhead  
 Allan, George R., B.A., M.D., Glasgow  
 Allan, Henry, M.A., student, Glasgow  
 Allan, Jas., M.A., tch., 12 George st., Helensburgh  
 Allan, James Paul, M.D., Renfrew  
 Allan, James W., M.B., Belvidere Hosp., Glasgow  
 Allan, John, M.D., Klerksdorp, Transvaal  
 Allan, J., M.A., surveyor of taxes, Hamilton  
 Allan, Robert, M.B., Ardrossan  
 Allan, William, M.B., Langlands House, Govan  
 Allan, William, M.A., student, Glasgow  
 Allan, Wm., B.Sc., C.E., Elderslie ho., Strathaven  
 Allan, W., M.B., Cramlington, Northumberland  
 Allan, W. C., M.B., Klerksdorp, Transvaal  
 Allan, William C., M.A., student, Minuntion, Barr  
 Allardice, Wm. C., M.B., 21 Sandyford pl., Glasgow  
 Allardyce, John M., M.A., missionary, Pekin  
 Allen, Charles, M.A., minister, Convoy  
 Allen, Robert H., M.B., 10 Berlin ter., P'shields  
 Allen, William B., M.B., Glasgow  
 Allen, William E. L., M.B., Hawkhead, Ambleside  
 Allison, Alexander, M.D., Loanhead  
 Allison, James, minister, Alexandria  
 Allison, John Dunn, LL.B., stud., Cartvale, Paisley  
 Almond, H. H., LL.D., N. Esk Lodge, Musselburgh  
 Alpine, George, B.D., minister, Dumbarton  
 Alston, Andrew, minister, Carluke  
 Alston, And., LL.B., law clerk, U.P. Manse, Carluke  
 Alston, James M., M.D., Airdrie  
 Anderson, A., M.A., minister, Carlisle  
 Anderson, Alexander M., M.D., Dundee  
 Anderson, A. R., M.A., teacher, Edinburgh  
 Anderson, David, minister, Ceres, Fife  
 Anderson, F., M.A., professor, Sydney, N.S.W.  
 Anderson, G., M.B., Stockton-on-Tees  
 Anderson, George, minister, New Cumnock  
 Anderson, G., B.D., min., 264 Renfrew st., Glas.  
 Anderson, H. C., M.B., 17 Octavia cott., Greenock  
 Anderson, Henry, minister, Partick  
 Anderson, H. S., M.A., student, Kilmaurs  
 Anderson, J. S., M.A., tch., Cummertrees, Annan  
 Anderson, Jas., M.B., Poulton-le-Fylde, Lancashire  
 Anderson, J. F., M.A., writer, Glasgow  
 Anderson, James H., manufacturer, London  
 Anderson, James Rae, M.D., Canonbie  
 Anderson, J. Wallace, M.D., Glasgow  
 Anderson, John, B.D., minister, Lerwick  
 Anderson, J., B.D., min., 72 Montg'y st., K'side  
 Anderson, John, M.D., London, S.E.  
 Anderson John, M.A., stud., 111 Finlay dr., Glas.  
 Anderson, John, M.A., stud., Haggis, B'ybridge  
 Anderson, John A., M.D., Stranraer  
 Anderson, J. B. M., M.A., M.B., Glasgow  
 Anderson, J. G. M.B., Silksworth, Sunderland  
 Anderson, J. W., M.A., M.B., Barrow-in-Furness  
 Anderson, Jonathan, writer, Glasgow  
 Anderson, M. S., M.A., M.B., Kilbirnie  
 Anderson, Robert, M.D., Shettleston  
 Anderson, Robert, D.D., minister, Glasgow  
 Anderson, Robert, minister, Kilsyth  
 Anderson, Robt. C., M.A., stud., New Kilpatrick  
 Anderson, Robert H., manufacturer, London  
 Anderson, R. S. G., B.D., prob., Ontario  
 Anderson, Thomas A., writer, Glasgow  
 Anderson, Thos. A. H., M.A., stu., 14 Eton pl., Gl.  
 Anderson, T. M'Call, M.D., professor, Glasgow  
 Anderson, Thos. P., M.B., 17 Hamilton ter., Partick  
 Anderson, William, LL.B., writer, Glasgow  
 Anderson, William, minister, Fettercairn  
 Anderson, William, J.P., Edinburgh  
 Anderson, William, minister, Boynsie, Banff  
 Anderson, William, minister, Cults  
 Anderson, Wm., M.B., Bedford ho., Pollokshields  
 Anderson, Wm. C., M.A., B.Sc., student, Mavisbank, Partickhill  
 Anderson, W. H., M.B., Harleston, Suffolk  
 Anderson, William S., M.D., Chapel-en-le-Frith  
 Andrew, Alexander, M.B., Barrow-on-Humber  
 Andrew, Alexander, M.A., teacher, Paisley  
 Andrew, Alexander, minister, Glasgow  
 Andrew, Jas. G., M.B., 13 Walmer cres., Glas.  
 Andrew, Robert, M.A., minister, Walls, Lerwick  
 Andrew, R., M.A., B.D., minister, Glengarnock  
 Andrew, W. S., M.A., teacher, Bo'ness  
 Angus, Robert, missionary, Chryston  
 Annan, Archibald J., B.L., writer, Glasgow  
 Appleton, Henry, M.D., 22 Seymour st., London, W  
 Arbuckle, John H., M.D., Kilmarnock  
 Armour, Matthew, minister, Sanday  
 Armstrong, G. C., M.D., Blackrock, Dublin  
 Armstrong, H., B.D., prob., London rd., Glasgow  
 Armstrong, W. A. A., M.A., minister, Reading  
 Arnot, Thomas, writer, Glasgow  
 Arnott, Hugh Y., B.D., prob., Kinloch, Blairgowrie  
 Arnott, James, M.D., surgeon-major, London  
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 Younger, R. T., LL.B., advocate, Edinburgh  
 Yuill, John, M.B., Tannochside, Uddingston  
 Yuille, Geo. S., M.A., stu., Schoolho., Eaglesham  
 Yuille, James, minister, Peterhead

Zinkeisen, William, B.Sc., chemist, Glasgow  
 Zuill, John, M.A., M.B., Buchlyvie  
 Zuill, Robert, M.B., Buchlyvie

## APPENDIX II.

*EXTRA-ACADEMICAL TEACHING.*

The following regulations for the recognition of Extra-Academical Teaching under Ordinances Nos. 14, 12, and 23, were adopted by the University Court on 14th June, 1894 :—

## IN THE CASE OF INDIVIDUAL EXTRA-ACADEMICAL TEACHERS.

I. Every application shall be made to the Secretary of the University Court and shall supply the following information :—

- (a) The registrable or other qualification or qualifications of the applicant.
- (b) A statement of his opportunities of studying the subject and the length of time devoted thereto.
- (c) A statement of his experience in teaching the subject.
- (d) A note of any of his published articles or works on the subject.
- (e) The appointments which he holds as a teacher of the subject in which he requests recognition, and a statement whether the course for which recognition is sought has previously been conducted by him, and if so, for how long. If the applicant is a teacher in a Medical School, College of Science, or other similar Institution, the most recent issue of the Calendar of such School, College, or Institution, should be forwarded.
- (f) The number of meetings to which the course extends, whether each meeting is for one hour or longer, and a statement of the proportion of the course to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of a practical course, information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the teacher for whom recognition is sought, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects treated in the course and of the books proposed for the use of students should also be sent in every case.
- (g) The hour or hours at which the course is conducted.
- (h) The accommodation, apparatus, and teaching appliances provided for the class.
- (i) The teaching or examining bodies which have recognized his course.

II. In the case of an applicant conducting courses in Glasgow or its neighbourhood an inspection shall be made of his accommodation and appliances for teaching.

III. Every Extra-Academic Teacher in Glasgow whose course has been recognized under Ordinance No. 12 or Ordinance No. 14 shall, at the commencement of each session, call the attention of his whole class to the provisions of the Ordinance as to enrolment and payment of fee at the University by all students who desire afterwards to graduate there; he shall also call attention to the University requirements as to preliminary examination (more stringent in the case of medical students than the minimum required by the General Medical Council); and shall advise any students looking forward to a University degree to procure from the Matriculation Office a copy of the syllabus of regulations applicable to their course.

IV. Every recognized Extra-Academical Teacher shall annually within one month of the close of the session furnish the University Court with a return of

- (a) The number of students who have attended the recognized course or courses, in such manner as to qualify *pro tanto* for graduation in the University of Glasgow.
- (b) Any change that may have been made in the accommodation or appliances provided.
- (c) A statement showing, for the year next ensuing, the number of meetings to which the course extends, whether each meeting is for one hour or longer, and the proportion of the course to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of a practical course information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether, or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the recognized teacher, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects to be treated in the course, and of the books proposed for the use of students, should also be sent.

V. The certificate of attendance granted by Extra-Academical Teachers should in all cases state the number of lectures or meetings for practical instruction in the course, the number of occasions on which the student was present, the fee charged, and bear that the student has duly performed the work of the class.

VI. Every candidate not being a matriculated student attending the course of an Extra-Academical Teacher in Glasgow, recognized for the purposes of graduation in Medicine or Pure Science, must at the commencement of each year enrol his name in a book kept at the University for that purpose, paying a fee of the same amount as the matriculation fee, and having in respect thereof a right to the use of the University Library. (Ord. No. 14, § VIII. 5; Ord. No. 12, § V.)

VII. The fee for attendance for the purposes of graduation on the courses of instruction of an Extra-Academical Teacher in Glasgow shall not be less than the fee for the corresponding University class. (Ord. No. 14, § VIII. 6; Ord. No. 12, § IV. 2; Ord. No. 23, § IV. 2.)

VIII. The Court will not in any case recognize for the purposes of graduation in Medicine the course of any teacher who teaches at the same time more than one of the subjects, except where the applicant is a professor or teacher of any endowed public college or institution, who, by the terms of his appointment is required to teach more than one of the subjects, and in that case recognition can be granted in one subject only. (Ord. No. 14, § VIII. 7.)

IX. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

X. The recognition of any teacher who fails to furnish the information required in terms of Regulation IV., or a sufficient explanation relative to such failure, or who has ceased for the period of two consecutive sessions to teach the subject in which he is recognized, shall *ipso facto* terminate.

#### IN THE CASE OF SCHOOLS OR INSTITUTIONS.

I. Every application shall be made to the Secretary of the University Court, and shall supply the following information:—

- (a) A statement of the number of teachers and a detailed syllabus of the curriculum courses proposed to be given, or, in the case of practical classes, information of a similar kind.
- (b) The number and duration of lectures proposed to be given and the number of examinations, whether written or oral, deemed necessary, or in the case of a practical class, information of a similar kind. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).
- (c) The hours of lectures.
- (d) The teaching or examining bodies which have already recognized the curriculum or certificate of the school or institution making application.
- (e) A statement as to the accommodation, apparatus, and appliances at the disposal of the teachers in the school or institution making application.
- (f) A note of the fees proposed to be charged.

II. The Court shall, if it thinks fit, cause an inspection to be made of the accommodation, apparatus, and teaching appliances provided by the school or institution making application.

III. Every recognized school or institution shall annually within one month of the close of the session furnish the University Court with a return of

- (a) The number of students who have attended the recognized school or institution in such manner as to qualify *pro tanto* for graduation in the University.
- (b) Any change that may have been made in the accommodation or appliances provided.
- (c) A statement showing, for the year next ensuing, the number of meetings to which the courses extend, whether each meeting is for one hour or longer, and the proportion of the courses to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of practical courses information should

be given as to the manner of conducting them, the number of examinations, oral or written, and whether, or to what extent, lectures or tutorial work form part of the courses. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).

IV. The certificates of attendance granted by recognized schools or institutions should in all cases state the number of lectures or meetings for practical instruction in the courses, the number of occasions on which the student was present, the fees charged, and bear that the student has duly performed the work of the classes.

V. The fees for attendance for the purposes of graduation on the courses of instruction in a recognized school or institution shall not be less than the fees for the corresponding University classes. (Ord. No. 14, § VIII. 6; Ord. No. 12, § IV. 2; Ord. No. 23, § IV. 2.)

VI. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

### LIST OF EXTRA-ACADEMICAL LECTURERS.

List of Extra-Academical Lecturers recognized by the University Court of the University of Glasgow, for the purpose of Graduation in Medicine and Science, in terms of Ordinances of the Universities Commissioners (1858 and 1889).

2 Oct., 1867,	Stevenson M'Adam, Ph.D., Edin.,	<i>Chemistry.</i>
10 Nov., 1875,	James Dunlop, M.D., Glasgow,	<i>Surgery.</i>
19 April, 1876,	Dr. James Gow Black, Otago,	<i>Chemistry.</i>
"	Miller Coughtrey, M.B., Otago,	<i>Anatomy.</i>
7 Nov., 1876,	John Dougall, M.D., Glasgow,	<i>Materia Medica.</i>
"	James Stirton, M.D., Glasgow,	<i>Midwifery.</i>
12 Sept., 1877,	A. M. Buchanan, M.D., Glasgow,	<i>Anatomy.</i>
21 Dec., 1880,	William Craig, M.D., Edinburgh,	<i>Materia Medica and Therapeutics.</i>
"	J. O. Affleck, M.D., Edinburgh,	<i>Practice of Medicine.</i>
"	John Barlow, M.D., Glasgow,	<i>Physiology.</i>
"	Samson Gemmell, M.D., Glasgow,	<i>Practice of Medicine.</i>
24 May, 1881,	Byrom Bramwell, M.D., Edin.,	<i>Practice of Medicine.</i>
26 Jan., 1882,	James M. Milne, Ph.D., Glasgow,	<i>Chemistry.</i>
"	William L. Reid, M.D., Glasgow,	<i>Midwifery.</i>
13 Feb., 1883,	John Glaister, M.D., Glasgow,	<i>Forensic Medicine.</i>
27 May, 1884,	Johnson Symington, M.D., Edinburgh,	<i>Anatomy.</i>
22 July, 1885,	James J. Dobbie, M.A., D.Sc., University Coll., Bangor,	<i>Chemistry.</i>
"	Reginald W. Phillips, B.A., B.Sc., University Coll., Bangor,	<i>Botany.</i>
28 April, 1886,	A. Smithells, B.Sc., Yorkshire College, Leeds,	<i>Chemistry.</i>
4 Oct., 1887,	Claud M. Thompson, University College, Cardiff,	<i>Chemistry.</i>



4 Oct., 1887,	W. Newton Parker, University College, Cardiff,	<i>Zoology.</i>
20 Mar., 1889,	Alexander Napier, M.D., Glas.,	<i>Materia Medica.</i>
27 Feb., 1890,	James Robertson Watson, M.A., Glasgow,	<i>Chemistry and Practical Chemistry.</i>
„	John Lindsay Steven, M.D., Glas.,	<i>Pathology.</i>
„	Alex. Robertson, M.D., Glasgow,	<i>Practice of Medicine.</i>
27 Feb., 1890,	Philip J. White, M.B., University College, Bangor,	<i>Zoology.</i>
26 Feb., 1891,	Thomas King, Glasgow,	<i>Botany.</i>
30 April, 1891,	E. E. Prince, Glasgow,	<i>Zoology.</i>
5 Jan., 1892,	B. C. A. Windle, M.D., Queen's Coll., Birmingham,	<i>Anatomy.</i>
„	F. J. Allen, M.A., M.B., C.M., Mason Science Coll., Birmingham,	<i>Physiology.</i>
„	W. A. Tilden, D.Sc., Mason Science Coll., Birmingham,	<i>Chemistry.</i>
„	T. W. Bridge, M.A., Mason Science Coll., Birmingham,	<i>Zoology.</i>
„	W. Hillhouse, M.A., Mason Science Coll., Birmingham,	<i>Botany.</i>
28 April, 1892,	James Swanson, M.A., M.B., C.M., St. Mungo's Coll., Glasgow,	<i>Botany.</i>
23 Feb., 1893,	James Blyth, M.A., Technical College, Glasgow,	<i>Physics.</i>
„	J. W. Carr, M.A., University College, Nottingham,	<i>Botany.</i>
27 April, 1893,	G. G. Henderson, D.Sc., Technical College, Glasgow,	<i>Chemistry.</i>
„	A. Gray, M.A., University College, Bangor,	<i>Physics.</i>
„	J. H. Poynting, D.Sc., Mason College, Birmingham,	<i>Physics.</i>
20 July, 1893,	T. K. Dalziel, M.B., C.M., Anderson's College, Glasgow,	<i>Medical Jurisprudence.</i>
„	J. Berry Haycraft, M.D., University College, Cardiff,	<i>Physiology.</i>
9 Nov., 1893,	J. A. Thomson, M.A., Edinburgh,	<i>Zoology.</i>
„	A. P. Aitken, D.Sc., Edinburgh,	<i>Chemistry.</i>
„	J. F. King, Edinburgh,	<i>Chemistry.</i>
„	I. Macadam, Edinburgh,	<i>Chemistry.</i>
„	J. B. Readman, D.Sc., Edinburgh,	<i>Practical Chemistry.</i>
„	D. N. Paton, M.D., Edinburgh,	<i>Physiology and Practical Physiology.</i>
„	R. Stockman, M.D., Edinburgh,	<i>Materia Medica and Therapeutics.</i>
„	A. Bruce, M.D., Edinburgh,	<i>Pathology and Practical Pathology.</i>
„	F. W. N. Haultain, M.D., Edinbro',	<i>Midwifery.</i>

9 Nov., 1893,	R. M. Murray, M.B., Edinburgh,	<i>Midwifery.</i>
"	G. A. Gibson, M.D., Edinburgh,	<i>Practice of Medicine.</i>
"	R. W. Philip, M.D., Edinburgh,	<i>Practice of Medicine.</i>
"	W. Husband, M.D., Edinburgh,	<i>Vaccination.</i>
14 Nov., 1893,	R. B. Ness, M.A., M.B., Ander- son's College, Glasgow,	<i>Materia Medica and Therapeutics, and Practical Phar- macy.</i>
"	Dawson Turner, M.D., Edinburgh,	<i>Physics.</i>
8 Feb., 1894,	J. W. B. Hodsdon, M.D., Edinbro',	<i>Surgery.</i>
"	H. E. Clark, M.R.C.S., Glasgow,	<i>Surgery.</i>
"	Andrew Jamieson, M.I.C.E., Technical College, Glasgow,	<i>Electrical Engineer- ing.</i>
8 Mar., 1894,	John M. Brown, M.B., C.M., Edin.,	<i>Anatomy and Prac- tical Anatomy.</i>
"	Chas. W. Cathcart, M.B., C.M., Edinburgh,	<i>Surgery.</i>
"	John S. McLaren, M.B., C.M., Edinburgh,	<i>Surgery.</i>
"	Robert T. Kent, M.A., F.R.C.S., St. Mungo's College, Glasgow,	<i>Anatomy.</i>
14 June, 1894,	George T. Beatson, M.D., Glas- gow,	<i>Surgery (Systematic and Operative).</i>
"	Francis M. Caird, M.B., C.M., Edinburgh,	<i>Surgery.</i>
"	Alexander James, M.D., School of Medicine, Edinburgh,	<i>Practice of Medicine.</i>
"	A. N. M'Alpine, Minto House, Edinburgh,	<i>Botany.</i>
"	Augustus A. Matheson, M.D., School of Medicine, Edin.,	<i>Midwifery.</i>
"	William Russell, M.D., School of Medicine, Edinburgh,	<i>Pathology and Prac- tical Pathology.</i>
"	Henry Alexis Thomson, M.D., Minto House, Edinburgh,	<i>Surgery.</i>

And the ordinary Physicians and Surgeons of any General Hospital in the United Kingdom which accommodates not fewer than eighty patients, and possesses a distinct staff of Physicians and Surgeons. (See Ordinance No. 14, Section VII. (5).)

### APPENDIX III.

#### GLASGOW UNIVERSITY EXTENSION BOARD.

The University has organized a scheme for the extension of University teaching, by means of local lectures and classes, upon the lines which have proved so successful in the case of the Universities of Oxford and Cambridge. Its purpose is to give, as far as possible, the advantages of University education to those whose circumstances do not permit them to attend the University. It is especially intended to meet the wants of

(1) ladies, (2) clerks and other persons engaged in business, and (3) artisans of all classes. The Scheme is under the management of the following Board:—Sir James King, Bart., LL.D., *Chairman*; \*Robert Gourlay, Manager, Bank of Scotland, St. Vincent Place, Glasgow, *Hon. Treasurer*; \*R. M. Wenley, M.A., D.Sc., 8 St. Alban's Terrace, Glasgow, W., *Hon. Sec.*; Professor McCall Anderson, M.D.; Professor Barr, D.Sc.; \*William Bathgate, M.A., H.M.I.S.; Walter G. Blackie, LL.D.; Professor Bower, D.Sc., F.R.S.; \*Professor Bradley, M.A.; \*J. Cleland Burns; Professor Buchanan, M.D., LL.D.; The Very Rev. Principal Caird, D.D.; James Campbell of Tullichewan; Professor Charteris, M.D.; William Clark; Stewart Clark of Kilnside; Professor Cleland, M.D., LL.D.; Mrs. Archibald Coats; Thomas Glen Coats; \*Archibald Craig, LL.B.; George Crichton; Alexander Crum of Thornliebank; Sir John Neilson Cuthbertson; Peter Denny, LL.D.; The Rev. Professor Dickson, D.D.; The Rev. Principal Douglas, D.D.; \*Henry Dyer, M.A., D.Sc., C.E.; Professor Ferguson, LL.D.; Charles Gairdner, LL.D.; Professor Gairdner, M.D., LL.D.; James Grahame; \*John Hutchison, LL.D.; \*Professor Jack, LL.D.; William Jolly, H.M.I.S.; Professor Lord Kelvin, LL.D., D.C.L.; William Ker; J. H. Kerr; John Kerr, LL.D., H.M.I.S.; \*Mrs. Lindsay; Sir James D. Marwick, LL.D.; \*Colonel Sir Donald Matheson, K.C.B.; T. A. Mathieson; Professor Moir; Donald Morrison, LL.D.; Professor Murray, B.A.; James Macdonald, LL.D.; \*The Rev. A. R. McEwen, D.D.; \*Professor McKendrick, M.D., F.R.S.; Miss Grace Paterson; R. W. Cochran-Patrick of Woodside, LL.D.; \*Professor Ramsay, LL.D.; The Rev. Professor Robertson, D.D.; Thomas Russell of Ascog; Professor Simpson, M.D.; \*William Smart, LL.D.; J. Parker Smith of Jordanhill, M.P.; Sheriff Spens, LL.D.; Alexander Stephen; \*The Rev. Professor Stewart, D.D.; The Rev. Professor Story, D.D.; Professor Moody Stuart; Professor Veitch, LL.D.; \*The Rev. John Watt, D.D.; \*Mrs. R. M. Wenley; \*Professor Young, M.D.

Those marked \* constitute the Executive.

A Prospectus giving an account of the movement and of the mode of working it, together with a list of lecturers and subjects, may be had (post free) on application to Mr. Wenley, the Secretary, 8 St. Alban's Terrace, Glasgow, W., to whom communications by local committees and all persons interested should be addressed.

#### APPENDIX IV.

### UNIVERSITY SOCIETIES.

#### GLASGOW UNIVERSITY UNION.

At a Meeting of Students and Graduates, held on the 14th day of February, 1885, it was unanimously resolved to establish a Glasgow University Union. A sum sufficient to erect a building for this purpose having been offered to the Senate by JOHN M'INTYRE, Esq., M.D., Odiham, Hampshire, and the Senate having accepted this gift, Articles of Constitution were drawn up by a Committee of Students and Graduates, and received the approval of the Senate, the Donor, and of the Students' Representative Council. A further sum of £12,000 was

raised by the Union Bazaar of 1889, and devoted to furnishing and endowing the building. In 1893, to meet the increasing membership, the building was largely extended at a cost of £2800. The Union is governed by a Board of Directors, appointed by the Committee of Management which is elected annually at the General Meeting of the Members.

*Objects.*—The objects of the Union are to provide Students with the comforts and conveniences of a Social Club, to hold Debates, and to form a centre to which the various University Societies may be affiliated. The Buildings comprise a Debating Hall, a Dining Hall, Reading and News Rooms, Billiard and Smoking Rooms, Committee Rooms, Lavatories, etc.

*Membership.*—The Members of the Union are Ordinary Members or Life Members.

Ordinary membership of the Union is open to all matriculated Students and all former Students of the University, and all Medical Students of Glasgow whose names are enrolled in the Extra-mural Album of the University, on payment of an Annual Subscription of Five Shillings. Students may join for the summer session only, on payment of Three Shillings.

All matriculated Students and former Students of the University may, on payment of the sum of Three Pounds Three Shillings, become Life Members of the Union.

*President*—Joshua Ferguson, M.A. *Vice-President*—Joseph Coats, M.D.

*Hon. Secretary*—Alfred Charlton. *Hon. Treasurer*—M. P. Fraser, LL.B.

*Assistant Secretary and Treasurer*—Alexander M. Scott.

*Librarian*—J. A. Stokes Little, M.A.

*Board of Directors*—The Office-bearers, and C. O. Hawthorne, M.B., C.M.; Jas. J. MacLehose, M.A.; R. S. Horne, M.A.; Francis R. Hill.

*Former Presidents of the Union.*

1890. John H. Harley, M.A. | 1891-92. John Paterson, M.A., M.B.

1890-91. Robert Bell, M.B. | 1892-93. F. A. Macquisten, B.L.

1893-94. Joshua Ferguson, M.A.

#### THEOLOGICAL SOCIETY.

The object of the Society is to discuss, by means of essays and debates, theological and ecclesiastical questions. The membership of the Society is open to all students attending the Divinity Hall of the University; but all matriculated students in faculties other than the Faculty of Divinity are eligible for extraordinary membership.

*Honorary President*—R. M. Wenley, M.A., D.Sc.

*President*—G. G. Duncan, M.A. *Vice-President*—C. F. Charleson.

*Secretary*—J. M. Dickie, M.A., 20 Church Street, Partick.

*Treasurer*—G. L. Pagan.

*Committee.*

J. Baillie Craig, M.A.

G. S. Yuille, M.A.

C. W. Hutcheson, M.A.

W. Neil.

(With two students of the first year in Divinity to be elected in November.)

## MEDICO-CHIRURGICAL SOCIETY.

The principal business of the Society is the prosecution of Medical Research by Dissertations and Debates.

All Medical Students and Medical Men of one year's standing are eligible for Ordinary Membership, which may be obtained on payment of the Annual Subscription of One Shilling.

Meetings of the Society are held in the Union Buildings every Friday Evening during the Winter Session, at 7 o'clock.

*Office-Bearers for 1894-95.*

*Honorary President*—Hector C. Cameron, M.D.

*President*—James F. Gemmill, M.A.

*Vice-Presidents.*

*Senior*—W. H. Lang.

*Junior*—A. Young, B.Sc.

*Secretaries.*

*Corresponding*—J. Eric Wilson, The Union.

*Minute*—A. B. Sloan.

*Treasurer*—Joshua Ferguson, M.A.

*Librarian*—S. Anderson.

*Committee.*

Farquhar Macrae.

Francis R. Hill.

James D. Graham.

W. H. de Wyt.

Thomas Hunter, M.A.

W. K. Hutton, M.A.

W. Duncan.

K. M. Duncan.

(With two Students of the first year in Medicine to be elected in November.)

Books are given out at weekly meetings, or during the week by written application.

## DIALECTIC SOCIETY.

The Society meets weekly during the Session for the discussion of Literary, Philosophical, and Political subjects.

All matriculated Students are eligible for Ordinary Membership, which is obtained by payment of the Annual Subscription of One Shilling.

*Honorary President.*

A. C. Bradley, M.A., Professor of English Literature.

*President*—John G. Spens, M.A.

*Vice-Presidents.*

*Senior*—W. M. R. Pringle.

*Junior*—Richard Morris.

*Secretaries.*

*Senior*—A. M. Hamilton, M.A., 7 Woodside Terrace.

*Junior*—A. M. Scott.

*Treasurer*—J. A. S. Little, M.A.

*Macer*—A. R. Johnston.

*General Board.*

A. J. Fleming, M.A.

Francis R. Hill.

G. B. Miller.

Geo. G. Duncan, M.A.

D. Cameron.

Alex. Taylor.

John Wallace.

C. Taylor.

## GLASGOW UNIVERSITY ORIENTAL SOCIETY.

(Instituted 1880.)

The object of the Society is the study of the languages and literatures of the East.

All Students of Oriental languages are eligible for election to the membership.

The Society meets twice a year—in the months of April and October.

*Office-Bearers.*

*President*—Rev. Professor James Robertson, D.D.

*Vice-President*—Mr. R. B. Pattie, B.D.

*Corresponding Secretary*—Rev. James Young, B.D.

*Recording Secretary*—Rev. A. Cameron Watson, B.D.

*Treasurer*—Rev. Robert Gardiner, B.D.

## GLASGOW UNIVERSITY ALEXANDRIAN SOCIETY.

This Society was formed in January, 1887. It has for its chief object the discussion of questions connected with the Literatures of Ancient Greece and Rome. The membership is open to Members of the University. Any distinguished Scholar or any Member of the University of five years' standing, or any person officially connected with the University, is eligible for Honorary Membership.

*Office-Bearers.**Honorary Presidents.*

Professor G. G. Ramsay, LL.D. | Professor G. G. A. Murray, B.A.

*President*—R. M. Burrows, M.A.

*Vice-Presidents*—G. Macdonald, M.A., and J. R. Tannahill.

*Secretary*—W. G. Bell.

*Treasurer*—G. S. Adams.

*Committee.*

John E. M'Fadyen, M.A.

J. S. Thomson.

W. K. Gillies.

J. Buchan.

G. Scott.

R. D. Bell.

## GLASGOW UNIVERSITY PHILOSOPHICAL SOCIETY.

(Instituted 1887.)

The Society was instituted for the promotion of Philosophical Discussion and Investigation, and meets fortnightly on Tuesday Evenings at Half-past Seven during the Winter Session. The Society is affiliated to the University Union. Ordinary Membership is open to all Students who have attended or who are attending Philosophical Classes in any University. The annual subscription is half-a-crown, but to members of the University Union who join the Society otherwise than by selecting it as one of the two societies open to them without subscription, the annual subscription is one shilling.

*Office-Bearers for Session 1894-95.**Honorary Presidents.*

Principal Caird,

Professor Veitch,

Professor A. C. Bradley,

Dr. Hutchison Stirling, Edinburgh.

} *Ex Officiis.*



*President*—Henry N. Brailsford.

*Vice-President*—J. A. Duke.

*Secretary*—W. K. Gillies.

*Treasurer*—William Boyd.

*Members of Committee.*

Hyam Goodman, M.A.

— Kilpatrick.

E. M. Henderson.

— Macmillan.

(And two others to be elected in November.)

#### GLASGOW UNIVERSITY ENGINEERING SOCIETY.

(Instituted 1891.)

The objects of this Society are the promotion of the study of Engineering and the diffusion of Engineering information among the members, by the reading of papers, by discussions, and by such other means as the Society shall approve.

The membership is open to all past and present Students of the University.

*Office-Bearers for Session 1894-95.*

*Honorary President*—Professor J. H. Biles, M.C.I.N.R.

*President*—J. H. A. M'Intyre, M.I.M.E., Whit. Sch.

*Vice-Presidents.*

*Engineering*—

D. G. Taylor, B.Sc., C.E.

*Naval Architecture*—

J. Moir Dickson, L.R.Sch.

*Hon. Secretary*—Lewis A. Smart, 235 West Regent Street.

*Treasurer*—Joseph B. Paterson, 15 Woodside Quadrant.

*Committee.*

*Engineering*—

Wm. Muirhead.

Oliver Styles.

James Whyte.

*Naval Architecture*—

Herbert C. Sadler, B.Sc.

H. L. Ferguson, B.Sc.

J. M'Gregor.

#### GLASGOW UNIVERSITY NATURAL HISTORY SOCIETY.

The principal business of the Society is the promotion of the study of Natural History by organizing Field Excursions and Demonstrations.

Any present or past Students of the University are eligible for membership; the Annual Subscription is One Shilling.

During the Summer Session weekly Excursions are made; Demonstrations or Lectures are given in the Winter Session.

*Office-Bearers for 1894-95.*

*Honorary President*—Professor F. O. Bower, M.A., D.Sc., F.R.S.

*President*—James Rankin, B.Sc.

*Vice-President*—James C. Robertson, M.A., B.Sc.

*Secretary*—Archibald Young, B.Sc.

*Treasurer*—Robert Buchanan, M.A., B.Sc.

*Committee.*

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The objects of the Society are the promotion of the study of Chemistry, and the diffusion of Chemical information amongst its Members. Past and present Students of the University are eligible for membership on payment of an Annual Subscription of One Shilling. Meetings are held monthly during the Winter Session.

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## GLASGOW UNIVERSITY CHRISTIAN ASSOCIATION.

The object of this Society is the promotion of religious life and fellowship in the University.

In connection with the Association there are held—Weekly Prayer Meetings, Sabbath Evening Services, Bible Readings, etc.

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J. Twaddle.

(With another to be appointed in November.)

## GLASGOW UNIVERSITY TOTAL ABSTINENCE SOCIETY.

The object of this Society is to unite the abstaining students in the University, and to promote the cause of Total Abstinence. This work it accomplishes among the students by means of lectures, sermons, etc., while, outside the University, it carries on a successful Temperance Mission Work.

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## GLASGOW UNIVERSITY FREE CHURCH STUDENTS' SOCIETY.

This Society exists for the purpose of introducing young men connected with the Free Church into the social and intellectual life of the University. All students connected with the Free Church and others, such as the Society may approve of, are eligible for membership on payment of the annual subscription of One Shilling. The Society meets in the Free Church College every Saturday at Eleven a.m.

*Honorary President*—Rev. Henry Bremner, D.D.*President*—John A. Duke.*Vice-President*—Thomas Brown.*Secretary*—Joseph Shillinglaw, 15 Clifford Street, Glasgow.

## GLASGOW UNIVERSITY ATHLETIC CLUB.

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F. J. Barker, M.A.
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J. Stewart Carrick.	Warren Crosbie, B.L.
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T. Stevenson.	E. Bidie, Students' Union, <i>Hon. Sec.</i>
F. R. Hill.	

The object of the Club is the promotion of all forms of Athletic exercise. The Membership is confined to present and past Students of the University. The affairs of the Club are managed by a General Committee and Sub-Committees, one for each form of Athletic exercise. The General Committee are entrusted with the management of all matters concerning the Field, Pavilion, Annual Games, &c. The Sub-Committees are entrusted with the arrangements for each special form of exercise, subject always to the approval of the General Committee. The Annual Subscription to the Club is 2s. 6d., with a further Subscription for each form of exercise. None but Members of the Club are entitled to play any game under charge of any Sub-Committee.

The Annual General Meeting is held on the first Friday in November. Special Meetings are held when required.

## GLASGOW UNIVERSITY UNITED PRESBYTERIAN STUDENTS' SOCIETY.

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R. Wiseman.	A. Wilkie.	H. Thomson.
N. M. Leys.	J. Marr.	

(And another to be elected in November.)

This Society meets every Saturday at 10 a.m., in the Hall of Woodlands Road U.P. Church.

The objects of the Society are the promotion of social intercourse and the furtherance of moral and intellectual culture among its members.

All Students attending the University in any Faculty, who are connected with the United Presbyterian Church, are eligible for membership, which is obtained by the payment of the annual subscription of One Shilling. Students not connected with the United Presbyterian Church may become Associates.

GLASGOW UNIVERSITY RIFLE CLUB.

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*Vice-Presidents*—Professor Murray and Colonel James A. Reid.

*Team Captain*—T. Eaton Robinson (Lieutenant 1st Lanark R.V.),  
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*Secretary*—Robert Carswell, 124 Bath Street, Glasgow  
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*Committee*—William Sneddon (Surg. Capt. 2nd V.B.R.E.F.),  
John Coats (Lieutenant 3rd V.B.H.L.I.), T. W. Cuthbertson (Lieutenant  
4th V.B.S.R.), and A. Campbell.

Its objects shall be to promote rifle shooting among students and ex-students of Glasgow University, and to provide the means of having Glasgow University well represented in the annual match for the Inter-University Trophy.

All students and ex-students of Glasgow University shall be eligible as Patrons and Ordinary Members. All persons officially connected with the University shall be eligible as Patrons. Both classes of Members may take part in the competitions.

All persons, eligible as above, subscribing 10s. or upwards annually, shall be *ipso facto* Patrons. The subscription for Ordinary Members shall be 5s. for ex-students, and 2s. 6d. for present students, all payable by 1st March annually. These annual subscriptions may be commuted by a present payment of £3 3s., entitling the person paying to become a Life Patron.

THE UNIVERSITY CLUB, GLASGOW, 202 BATH STREET.

The Club is instituted for the association of gentlemen connected with the universities of the United Kingdom or with foreign universities.

The following persons are eligible for admission into the Club as ordinary members:—(1) Graduates and *alumni* of any recognized university in the United Kingdom or abroad; (2) Professors, and persons holding any honorary office in connection with a university.

The entry-money is £3 3s., and the annual subscription for a member having a residence or place of business within five miles of Glasgow Royal Exchange, is £3 3s., and for a member having neither a residence nor place of business within that distance, £1 11s. 6d.

Members joining prior to the end of July, 1894, are exempt from entry-money.

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Full particulars as to membership, etc., may be obtained on application to the Secretary at his address.

## GLASGOW UNIVERSITY CLUB, LONDON.

The objects of the Club are to maintain good fellowship among its members, and to promote the interests of the University of Glasgow and of higher education in connection therewith.

Graduates, and all who are or have been students of the University of Glasgow, or officially connected with it, are eligible for membership.

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## INDEX.

NOTE.—Bursaries, Scholarships (including Exhibitions and Fellowships), and Prizes will be found grouped under these headings respectively.

Academical Year, 129  
 Anatomy, Course in, 77  
 —, Class Certificates of Merit, 335, 347  
 —, Passes in, 314, 315  
 —, Examination Questions in, 416, 417  
 Apologetics, Examination Questions in, 433  
 Arabic—*see Hebrew*  
 Architecture, Naval, including Marine Engineering—*see Naval Architecture*  
 Army, Examination for, 45, 318  
 Arnott and Thomson Demonstratorship, 103  
 Arts, Faculty of, 37, 48, 51, 55, 103, 129, 134, 194, 278, 289, 303, 306, 339, 368, 384, 438, 441  
 —, Degree in—*see Degrees*  
 —, Masters of, 1893-94, 303  
 —, Preliminary Examinations in, 129, 133, 319, 349  
 —, —, Pass List, 319  
 Assessors, 17, 34  
 Assistants, University, 20, 39  
 Astronomy, Course in, 69  
 —, Degree Subjects, 146

Bachelor of Surgery, 158, 162  
 Bachelors of Divinity, 1893-94, 300  
 Bachelors of Laws, 1893-94, 300  
 — of Law, 1893-94, 301  
 — of Medicine, 1893-94, 302  
 — of Science, 1893-94, 305  
 Baxter Demonstratorship in Geology, 104  
 Biblical Criticism—*see Divinity and Biblical Criticism*  
 Blackstone Medals, 270, 343, 345  
 Boards of Studies, 38, 137  
 Botanic Garden, 126  
 Botany, Course in, 82  
 —, Class Certificates of Merit, 337, 346  
 —, Degree Subjects, 146  
 —, Passes in, 314  
 —, Examination Questions in, 415  
 —, Vacation Exercises, 440  
 Bursaries—

Adam, James, 196  
 Adam, John, 196  
 Adamson, 196  
 Angus and Mearns Ben. Soc., 197  
 Ardinglass, 197  
 Armagh, 197, 282  
 Arthur, 197  
 Ayrshire Masonic, 198  
 Ayrshire Society, 198  
 Barbour Kilbarchau, 199, 279

## Bursaries—

Biggart Memorial, 199, 279  
 Black, 199, 200, 284  
 Blackquarry School, 200  
 Boyd, 200  
 Boyd and Sanders, 200  
 Brand, 201  
 Brisbane, 201  
 Brown, 201, 278  
 Brown or Ettles, 201, 284  
 Brown, Ebenezer, 202  
 Browne (Ayrshire), 202  
 Brown-Paton, 202, 279  
 Buchanan, 203, 278  
 Buchanan (Bellfield), 203  
 Buchanan Society, 203  
 Celtie Society (Campbell), 204  
 Clark, John (Mile-end), 204, 279  
 Cowan, 205  
 Craig, Archibald, 206, 279  
 Craig, 205, 279  
 Crawford (or Bishop's), 206  
 Davidson, 206, 279  
 Denny, 207, 279  
 Dumfriesshire Society, 207  
 Duncan's Bute, 207  
 Dundonald, 208  
 Elder, 208  
 Ewing, James, 209, 279  
 Exchequer, 209  
 Ferguson, James, 210, 281  
 Forfar, 211, 278  
 Forrest, 211  
 Foundation, 211, 278  
 Fullarton of Overton, 212, 279  
 General Council, 212, 278  
 Gibson, John, 213  
 Gibson, Dr. Thomas, 213  
 Gilchrist, 213  
 Gilhagie, 213  
 Glasgow City Educational Endowments, 213, 279  
 Grant, George, 214  
 Grant, George, Junior, 215  
 Hamilton, 215  
 Hamilton Educational Trust, 215, 279  
 Hannay, 216, 279  
 Hastie, 216, 279, 285  
 Highland Society, 217  
 Howison, 217  
 Hutcheson's Educational Trust, 217, 280  
 Hyndford, 218  
 Jaffrey, John Ferguson, 218

## Bursaries—

Kerr, Malcolm, 219  
 Kintyre (Ker), 219  
 Kintyre (Love), 219  
 Laing, Alexander, 220  
 Laing, James, 220, 280  
 Lamb, 220  
 Leadbetter, 220  
 Leighton, 221  
 Leyden, John, 221  
 Library (Old), 221  
 Lochhead, James, 221, 280  
 Lochhead & Mitchell, 221  
 Logan, 222  
 Lorimer, 222, 281, 281, 285, 287  
 Lumsden, 224, 285  
 Lusk, 224, 280  
 Macarthur, 224  
 M'Crie, 225  
 M'Culloch, James Melville, 225  
 Macdonald, 226, 281  
 MacDougall, 226  
 M'Ewen, Malcolm, 227  
 Macfarlane, James, 227, 285  
 Macfarlane, John, 228  
 Macfarlane, Robert, 228  
 MacGrouther, 228  
 M'Kechnie, 229  
 Mackintosh, 228, 287  
 Maitland Club, 229  
 Marshall, 229  
 Marshall Trust, 230, 280  
 Menzies, 230  
 Merchants' House, 231, 279  
 Metcalfe, 231, 284  
 Monteith, 232, 281  
 Monteith, John, 232, 287  
 Muir, 233, 281, 284, 285  
 Muir Divinity, 235, 285  
 Notman, 235  
 Orr-Ewing, Dumbartonshire, 235  
 Park General Council, 212, 281  
 Paterson, James, 236, 280  
 Paterson, James Alexander, 237, 281, 287  
 Patriek, 237, 280  
 Perthshire Society, 238, 280  
 Pollock, 238, 280  
 Rainy, 239, 287  
 Ramsay-Walker, 240, 280  
 Ross, 240  
 Ross, John, junior, 240  
 Seott, 240, 279  
 Shearer, 241  
 Shipwrights' Company, 241  
 Smith, 242  
 Stevenson of Dalry, 242  
 Stewart, 242, 280  
 Struthers, 242  
 Taylor, 242  
 Thomson, James, Philosophical, 243, 280  
 Walkinshaw-Young, 243, 286  
 Walton, 244  
 Weir, Andrew, 244, 287  
 Whyte, William, 244, 280  
 Williams, 245

## Bursaries—

Wilson, 245  
 Young, George, 245  
 Young's Fund (Major), 246, 286  
 Bursaries, Competition, 1894-95, 278  
 Bursaries, Competition, Examination Questions for 1893, 349, 351, 355, 359  
 Bursaries, Competition, List of distinguished Competitors in 1893, 325  
 Bursars, Class attendance of, 193, 194

Calendar, University, 7-16

Celtic Lectureship, 107

Chaldee—see *Hebrew*.

Chancellor, 17, 30

Chapel, 44

Chemistry, Course in, 80

—, Class Certificates of Merit, 337, 338, 343, 346

—, Degree Subjects, 146

—, Passes in, 314, 315, 316

—, Examination Questions in, 414

Church History—see *Ecclesiastical History*

Civil Engineering and Mechanics, Course in, 71

—, Passes in, 315

—, Class Prize List, 339

—, Law, Course in, 95

—, —, Passes in, 311, 313

—, —, Class Prize List, 329

—, —, Degree Subjects, 147, 185

Class Prizes, 327

Classes, Programme of, 1895, 51

—, —, 1894-95, 48, 109

Classes, Separate Faculties and, 48, 55

Classical Literature, Certificates in Department of, 306

Clinical Lectures, 54, 86

Clinical Medicine, 86

Clinical Surgery, 86

*Comitia*, 29

Conveyancing, Course in, 94

—, Degree Subjects, 185

—, Passes in, 312, 313

—, Class Prize List, 330

—, Examination Questions in, 426

Council, General, 40

—, —, Members of, 1894, 462

Court, University, 17, 34

—, —, Proceedings of, 1893-94, 441

Dean of Faculties, 17, 33

Degree and Prize List, 1893-94, 300

Degrees Conferred, 1893-94, 300

—, Departmental Certificates, 305

—, Examination Questions for, 349

—, in Arts (M.A.), *Regulations*, 129, 134, 140

—, —, Subjects of Examination for, 142

—, —, Table of Examinations for M.A., 142, 148

—, in Divinity (B.D.) *Regulations*, 187

—, —, Table of Examinations for B.D., 189

— (D.D.) *Regulations*, 190

- Degrees in Law (LL.B. and B.L.) *Regulations*, 179, 183
- , Table of Examinations for, 186
- (LL.D.) *Regulations*, 190
- in Medicine and Surgery, *Regulations*, 158, 170
- , Table of Examinations for, 175
- in Science (B.Sc.), *Regulations*, 149, 152
- (D.Sc.), *Regulations*, 151, 155
- , Table of Examinations for B.Sc., 157
- , Examiners for, 21, 39, 127, 128, 170
- Degrees, Honorary, 190
- , Conferred, 1893-94, 300
- Demonstrators, 20, 39
- Demonstratorships, 103
- Departmental Certificates, 305
- Departments of Study in Arts, 55, 135
- Diploma in Public Health—*see Public Health*
- Divinity, Course in, 100
- , Class Prize List, 327
- , Examination Questions in, 433
- , Degrees in—*see Degrees*
- , Faculty of—*see Theology*
- Divinity and Biblical Criticism, Course in, 102
- , Class Prize List, 328
- , Examination Questions in, 435
- Divinity Hall, Course of Attendance at, 97
- Doctors of Divinity, 1893-94, 300
- , Laws, 1893-94, 300
- , Medicine, 1893-94, 301
- , Science, 304
- Drawing, Examination Questions in, 404
- , Passes in, 316
- Dress, Academic, 43, 191
- Dynamic, Examination Questions in, 367
- Ecclesiastical History, Course in, 102
- , Class Prize List, 329
- , Examination Questions in, 434
- Education, Course in, 64
- , Degree Subjects, 65
- Elocution, Teachers of, 99
- Embryology, 88
- Engineering Science, Certificates in, 156, 305
- , Degrees in, 152
- Engineering, Naval Architecture, and Marine—*see Naval Architecture*
- Engineering, Examination Questions in, 401
- English Language and Literature, Course in, 60, 110
- , Class Prize List, 342, 345
- , Degree Subjects, 144
- , Passes in, 306, 309, 313
- , Vacation Reading, 439
- English, Examination Questions in, 349, 371, 409
- Examinations in Arts and Science, Preliminary, 129
- , Medicine, Preliminary, 159
- , Pass Lists, 319, 324
- , for Candidates for the Army, 45
- , for Degrees, 129, 136, 142, 150, 154, 166, 173, 175, 180, 181, 182, 185, 186, 187, 189
- Examination Questions for Bursary and Preliminary Examination in Arts and Science, 349
- , for B.D., 430
- , for Degrees in Law, 421, 425
- , for Degrees of M.B. and C.M., 409
- , for Degrees in Science, 396
- , for M.A., 368
- , for Snell Exhibitions, 384
- , for Medical Preliminary, 409
- , for Historical Prizes, 436
- Examiners for Degrees, 21, 39, 127, 128
- , Preliminary, 22, 127
- Exegesis, New Testament, Examination Questions in, 432
- Exhibitions *see under Scholarships*
- Extra-Academical Teaching, *Regulations*, 501
- , List of Lecturers, 504
- Eye, Diseases of the, Course in, 88
- Factors, University, 23
- Faculties, 37
- Faculties and Classes, Separate, 48, 55
- Faculty of College, 29
- Fees, Class, 48, 109
- , Enrolment, 46
- , Entrance, 46
- , Examination and Graduation, 46
- , Library, 47
- , Matriculation, 46
- , Registration, 47
- Fellowships—*see under Scholarships*
- Financial Statement for 1892-93, 454
- Forensic Medicine, Course in, 85, 94
- , Degree Subjects, 185
- , Certificates of Merit, 331
- French, Course in, 111
- , Passes in, 310, 313
- , Examination Questions in, 362, 374, 411, 421
- General Council, 40
- General Council, Members of, 1894, 462
- Geology—*see Natural History*
- , Degree Subjects, 147
- , Examination Questions in, 401
- , Passes in, 314-316
- German, Course in, 112
- , Examination Questions in, 364, 413, 423
- Gifford Lectureship, 106
- Gown, Academical, 43, 191
- Graduates in Arts, 1893-94, 303
- , Divinity, —, 300
- , Law, —, 300, 301
- , Medicine, —, 301, 302
- , in Science, —, 304, 305
- Graduation in the several Faculties, 127
- , Ceremony of, 178, 192
- Graduation Fees—*see Fees*
- , Terms, 178
- Greek, Course in, 53
- , Class Prize List, 343, 345
- , Degree Subjects, 143
- , Passes in, 309
- , Examination Questions in, 355, 370, 386

- Greek, Vacation Exercises, 439  
 —, New Testament, 103  
 Gymnasium, 44  
 Gynæcology—*see Women, Diseases of*
- Health, Public, Diploma in—*see Public Health*  
 Hebrew and Semitic Languages, Course in, 100  
 —, Class Prize List, 328  
 —, Degree Subjects for M.A., 144  
 —, —, for B.D., 187, 188  
 —, Examination Questions in, 430  
 —, Vacation Exercises, 438  
 History, Chair of, 68  
 History and Law, Department of, 68, 135, 311  
 History, Ecclesiastical—*see Ecclesiastical History*  
 —, Natural—*see Natural History*  
 Honour List, 289  
 Honyman Gillespie Lectureship, 78  
 Hospital—*see Infirmary*  
 Humanity, Course in, 55  
 —, Degree Subjects, 142  
 —, Class Prize List, 344, 345  
 —, Vacation Exercises, 440  
 Hunterian Museum, 124
- Infirmary, Eye, 54  
 —, Royal, 54  
 —, Western, 53  
 Insanity, 54, 88
- Joint Board of Examiners, 22, 127  
*Jurisdiction Ordinaria*, Court of, 29  
 Jurisprudence, Course in, 95
- Language and Literature, Department of, 55  
 Latin—*see Humanity*  
 —, Examination Questions in, 351, 368, 384  
 —, Passes in, 308, 312  
 Law, Degrees in—*see Degrees*  
 Law, Faculty of, 50, 52, 89, 179, 193, 286, 329  
 —, Civil, Course in, 95  
 —, —, Degree Subjects, 147, 185  
 —, —, Passes in, 311, 311, 313  
 —, —, Examination Questions in, 384, 425  
 —, —, Class Prize List, 329  
 —, Constitutional, and History, Course in, 95  
 —, —, Degree Subjects, 147, 185  
 —, —, Passes in, 312, 313  
 —, —, Examination Questions in, 428  
 —, International Private, 96, 428  
 —, Mercantile, 96  
 —, Philosophy of, Course in, 65  
 —, —, Degree Subjects, 145  
 —, —, Examination Questions in, 427  
 —, Public, Course in, 96  
 —, —, Degree Subjects, 147, 185  
 —, —, Passes in, 312  
 —, —, Examination Questions in, 427  
 —, Roman, *see Civil Law*  
 —, Scots, Course in, 93  
 —, —, Degree Subjects, 185  
 —, —, Passes in, 312, 313
- Law, Scots, Class Prize List, 329  
 —, —, Examination Questions in, 426  
 Leaving Certificates, 132  
 Lecturers, 19, 38  
 —, Extra-Academical, Appendix II.  
 Library, Divinity Hall, 124  
 —, University, *Regulations*, 114  
 —, —, Catalogues, 117  
 —, —, Donations to, 119  
 Literature, English Language and—*see English Language and Literature*  
 Logic and Rhetoric, Course in, 61  
 —, —, Passes in, 306, 310, 312, 314, 318  
 —, Class Prize List, 341, 345  
 —, Degree Subjects, 145  
 —, Examination Questions in, 376, 388  
 —, Vacation Exercises, 438
- M'Callum Celtic Lectureship, *see Celtic*  
 Masters of Arts, 1893-94, 303  
 —, in Surgery, 1893-94, 302  
 Materia Medica, Course in, 83  
 —, Practical, 83  
 —, Class Certificates of Merit, 331, 347  
 —, Examination Questions in, 417  
 Mathematics, Course in, 65  
 —, Degree Subjects, 145  
 —, Passes in, 310, 313, 314, 315, 316  
 —, Certificates in Department of, 307  
 —, Class Prize List, 340, 346  
 —, Examination Questions in, 359, 379, 390, 396  
 Mathematics and Natural Philosophy, Certificates in department of, 307  
 Matriculation Fees, 43, 46  
 Mechanics—*see Civil Engineering*  
 Medal, University, 277, 288, 326  
 Medals (Gold)—Cleland, 270, 288, 326  
 —, —, Cowan, 270, 343, 344, 345  
 —, —, Cunninghame, 271, 340  
 —, —, Dobbie-Smith, 271, 288  
 —, —, Ewing, 272, 288  
 —, —, Gartmore, 273, 326  
 —, —, Jeffrey, 274, 343  
 —, —, Logan (Thomas) Memorial, 274, 282, 299, 327  
 —, —, Rae Wilson, 275, 288, 326  
 —, —, Scott-Macfarlan, 276, 343  
 —, (Medical), 331-338  
 Medical, Preliminary, 133, 159, 409  
 —, Jurisprudence, Passes in, 312, 313  
 —, Examination Questions in, 419, 429  
 Medical Students, Registration of, 159, 160  
 Medicine, Bachelors of, 1893-94, 302  
 Medicine, Doctors of, 1893-94, 301  
 Medicine, Faculty of, 50, 52, 74, 109, 158, 193, 287, 296, 331  
 Medicine, Clinical, Course in, 86  
 —, —, Class Certificates of Merit, 333, 333  
 Medicine, Graduation in—*see Degrees*  
 Medicine, Institutes of—*see Physiology*  
 —, Practice of, Course in, 74  
 —, —, Class Certificates of Merit, 332, 348  
 —, —, Examination Questions in, 418

- Member of Parliament, 17, 42  
 Mental Philosophy, Department of, 61  
 —, Certificates in, 1893-94, 306, 310  
 Midwifery, Course in, 80  
 —, Class Certificates of Merit, 331, 348  
 —, Examination Questions in, 419  
 Moral Philosophy, Course in, 62  
 —, Degree Subjects, 145, 185  
 —, Passes in, 306, 310, 312  
 —, Class Prize List, 341, 345  
 —, Examination Questions in, 377, 389  
 Muirhead Demonstratorship of Physiology, 104  
 Museum, Hunterian, 124  
 —, —, Keeper of, 23, 125  
 —, —, Donations to, 125
- Nations, Matriculated Students divided into, 31
- Natural History, Course in, 78  
 —, Class Certificates of Merit, 336, 346  
 —, Examination Questions in, 415  
 Natural Philosophy, Course in, 66, 112  
 —, Degree Subjects, 146  
 —, Passes in, 311, 314, 315, 316  
 —, Class Prize Lists, 340, 341, 346  
 —, Examination Questions in, 381, 393, 399  
 Natural Theology—*see Gifford Lectureship*  
 Naval Architecture and Marine Engineering, Course in, 73  
 —, Prize List, 340  
 —, Passes in, 316  
 —, Examination Questions in, 404
- Observatory, 69  
 Obstetrics—*see Midwifery*  
 Officers, University, 17  
 Out-Door Visitation, 54
- Pædagogium*, 26  
 Parliament, Representative in, 17, 42  
 Pastoral Training, *see Divinity*  
 Pathology, Course in, 87  
 —, Class Certificates of Merit, 338, 348  
 —, Examination Questions in, 420  
 Pharmacy—*see Materia Medica*  
 Philosophy, Mental—*see Mental Philosophy*  
 —, Moral—*see Moral Philosophy*  
 —, Natural—*see Natural Philosophy*  
 Physic, Practice of—*see Medicine, Practice of*  
 Physics, Course in, 88, 112  
 —, Class Certificates of Merit, 338, 346  
 —, Examination Questions in, 416  
 Physiology, Course in, 84  
 —, Passes in, 314, 314, 315  
 —, Class Certificates of Merit, 335, 347  
 —, Examination Questions in, 417  
 Political Economy, Course in, 63  
 —, Degree Subjects, 145, 185  
 —, Passes in, 313  
 —, Class Prize List, 341  
 —, Examination Questions in, 429  
 Preliminary Examinations in Arts and Science, 127, 129, 133
- Preliminary Examinations in Arts and Science, Pass Lists, 319  
 —, in Medicine, 133, 159  
 —, Pass Lists, 324  
 —, Examination Questions, 349, 409, 421  
 Principal, 17, 33  
 Prize and Degree List, 1893-94, 300  
 Prizes, Class, 1893-94, 327  
 Prizes—  
 Arnott, 268, 287, 326  
 Blackstone Examination, 270, 343, 345  
 Brunton Memorial, 269, 287, 299, 327  
 Buchanan, 270  
 Cleland, 270, 288, 326  
 Coulter, 270, 288, 326  
 Cowan, 270, 343, 344, 345  
 Cunninghame, 271, 340  
 Dill, 271  
 Dobbie-Smith, 271, 288  
 Downhill, 272, 285, 327  
 Ewing, 272, 288  
 Findlater, 189, 272, 285, 327  
 Gartmore, 273, 326  
 Gladstone Historical, 273, 327, 438  
 Harvey, George, 273  
 Henderson, 273, 288, 326  
 Jamieson, 189, 273, 285, 327  
 Jeffrey, 274, 343  
 Kirk Memorial, 274  
 Logan (Thos.) Memorial, 274, 282, 299, 327  
 Luke Historical, 275, 282, 436  
 Macfarlan and Cook, 275, 285, 327  
 Muirhead, 275, 344  
 Procurators, Faculty of, 93, 94, 330, 330  
 Rae Wilson, 275, 288, 326  
 Reid, John, 276  
 Ross, Robert, 93, 94, 276, 329, 330  
 Scott-Macfarlan, 276, 343  
 University, 277, 288, 326  
 Walker, 277  
 Watt, 277, 288
- Prizes, University, 1893-94, 326  
 —, —, for 1894-95, 288
- Professional Education for Degrees in Medicine and Surgery, 162, 171  
 —, Examinations for, 166, 173  
 —, First, 166, 316, 414  
 —, Second, 166, 416  
 —, Third, 166, 417  
 —, Fourth, 167, 418
- Professors, 18, 48  
 Professorships, Foundation of, 27  
 Programme of Classes, 1894-95, 48, 109  
 —, 1895, 51, 110  
 Psychology, 61  
 Public Health, Diploma in, *Regulations*, 176  
 Public Law—*see Law, Public*
- Queen Margaret College, 108, 345
- Reading Room, 118  
 Rector of the University, 17, 31  
 Regents, 26  
 Registration of Medical Students, 159, 160  
 —, of Medical Practitioners, 179

Rhetoric—see *Logic and Rhetoric*

Scholarships, Fellowships, Exhibitions—

- Black Theological, 189, 247, 285
- Breadalbane, 248, 282, 284
- Clark, George A., 249, 282, 284
- Clark, John (Mile-end), 251, 282, 282, 282
- Cunninghame, Andrew, 251, 287
- Donaldson, Alexander, 252
- Donaldson, Robert, 252
- Eglinton, 253, 282
- Euing, William, 255, 282
- Exhibition (1851), Science, 256
- Ferguson, 257
- Foulis Memorial, 259
- Lloyd's Register, 259, 284
- Luke, 266
- Mackay Smith, 261
- Metcalf, 261
- Sandford, 262, 282
- Scott, 262, 282
- Shaw Philosophical, 263
- Snell (at Oxford), 265, 282
- Thomson Experimental, 267
- Travelling to Bible Lands, 267
- , Competition, 1894-95, 256
- Science, Degrees in, 149
- , Conferred, 304, 305
- , Department of, 65, 310
- , Engineering, Certificate in, 156, 305
- , Faculty of, 49, 51, 68, 149, 194, 284, 295
- , Preliminary Examination in, 133
- Semitic Languages, see *Hebrew*
- Senatus Academicus, 18, 37
- Session, *Summer*, 1895, 51
- Session, *Winter*, 1894-95, 48
- Societies, University, Appendix IV.
- Students, 42

Students Matriculated in 1893-94, 42

— Representative Council, 42

Surgery, Course in, 79

— Class Certificates of Merit, 333, 348

—, Examination Questions in, 418

Surgery, Clinical, Course in, 86

—, —, Class Certificates of Merit, 334, 334

—, Graduation in—see *Degrees*

—, Masters in, 1893-94, 302

Synopses of Courses in the several classes, 55

Syriac—see *Hebrew*

Theology, Faculty of, 51, 97, 187, 193, 284, 327

Therapeutics—see *Materia Medica*

University, The, 25

University Assistants, 20, 39

— Buildings, 27

University Court, 17, 34, 441

— Extension Board, Appendix III.

— Government of the, 29

— Officers, 17

— Societies, Appendix IV.

Vacation Exercises, 438

Vaccination, 164

Vice-Chancellor, 17, 30

Waltonian Lectureship, 88

Women, Diseases of, 80

—, —, Certificates of Merit, 331

Women's Department, 43, 108

Young Assistantship, 39, 71

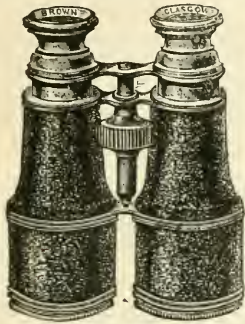
Zoology—see *Natural History*

—, Degree Subjects, 146

—, Passes in, 314, 314, 316



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<i>Junior do.</i> ... ..	12 NOON.	
<i>Practical do.</i> ... ..	9 A.M. till 6 P.M.	
<i>Chemistry</i> ... ..	11 A.M.	{ J. ROBERTSON WATSON, M.A., and Assistants.
<i>Chemical Laboratory</i> ... ..	10 A.M. till 6 P.M.	
<i>Physics</i> ... ..	9 A.M.	{ PETER ALEXANDER, M.A. G. BELL TODD, M.B.
<i>Zoology</i> ... ..	10 A.M.	
<i>Physiology</i> ... ..	1 P.M.	{ D. CAMPBELL BLACK, M.D., and Assistant.
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<i>Practice of Medicine</i> .. ..	11 A.M.	
<i>Midwifery and Diseases of Women and Children,</i> ... ..	12 NOON.	{ SAMSON GEMMELL, M.D., and Assistant. W. L. REID, M.D., and Assistant.
<i>Laryngology</i> ... ..	5 P.M.	
<i>Aural Surgery, Thursday</i> ... ..	4 P.M.	{ JOHN MACINTYRE, M.B. THOMAS BARR, M.D.
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<i>Friday</i> ... ..	8 P.M.	{ T. SPENCE MEIGHAN, M.D.

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<i>Osteology (for Beginners)</i>	9 A.M. AND 1 P.M.	<i>Physics</i> ... ..	9 A.M.
<i>Regional Anatomy</i> ... ..	11 A.M. & 4.10 P.M.	<i>Botany</i> —THOMAS KING, ...	11 A.M.
<i>Practical Anatomy</i> ... ..	6 A.M. till 6 P.M.	<i>Zoology</i> ... ..	12 NOON.
<i>Practical Chemistry</i> ... ..	10 A.M. till 6 P.M.	<i>Materia Medica and Practical Pharmacy</i>	as may be arranged.
<i>Medical Jurisprudence</i> ... ..	11 A.M.	<i>Practical Physiology</i> ... ..	1 P.M.
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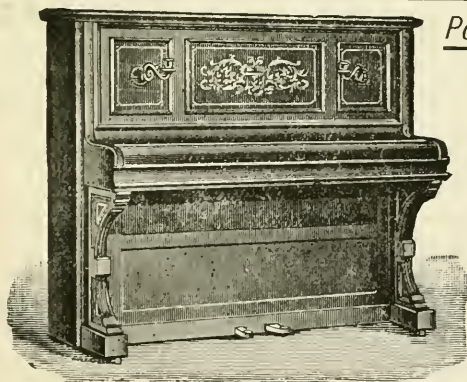
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